

Bio 101 Online, ULV, R. Good

****NOTE:** This document is a copy of the actual syllabus on Blackboard, which is more interactive and has hyperlinks to certain assignments. It's provided to Regional Campus as an example of the type of work assigned and is not meant to replace the actual syllabus on Blackboard.

Textbook:

Textbook: Concepts in Biology, 14th ed. by Eldon Enger, Frederick Ross, and David Bailey.

The syllabus is a working document and is subject to change per instructor discretion.

Assignments by Week:

(date indicates the start date for each weeks' material, due no by the following Sunday no later than 11 PM PST)

Week 1 Beginning Mon 3/26: Introduction Discussion Board #1 (10 pts), Read Supplemental Reading Article (Chagas' Disease), Collect lab materials, make sure you have book, and Begin Chain of Transmission Disease Project (100 pts)

Week 2 Beginning Mon 4/2: Turn in Chain of Transmission Proj by 4/9 on discussion board (DB #2).

Week 3 Beginning Mon 4/9: Reading 1 Click for more options, and Reading 1a Quiz 1 and Lab 1 (DB #3). Chapters 1-4.

Week 4 Beginning Mon 4/16: Reading 2 Click for more options , Quiz 2 and Lab 2 (DB #4). Chapters 5-7.

Week 5 Beginning Mon 4/23: Reading 3 & Reading 3a, Quiz 3, and Begin Lab 3 (plan ahead early by preparing materials-lab is due at the end of the course but MUST be started early! Also post your lab setup in the DB).

Week 6 Beginning Mon 4/30: Mid Term Test Open (ch 1-7), due by end of week, @11 PM PST).

Week 7 Beginning Mon 5/7: Discussion board #5. Reading 4, Quiz 4(chapter 10) and Lab 4 Coin toss kids.

Week 8 Beginning Mon 5/14: Reading 5, Chapters 8 Quiz 5 (chapter 8) Do Lab 5 Genetic Code

Week 9 Beginning Mon 5/21: Reading 6, Chapter 16, Watch Video Linked on YouTube (Strange Days) Quiz 6 (population genetics)

Week 10 Beginning Mon 5/28: Final Project: America's Least Wanted! ALW Due no later than Saturday 6/3 (powerpoint slide show posted in discussion board). *** Course Ends Sunday 6/3!***

Term Assignments by point total

(points are estimates only; instructor reserves right to change point totals as needed):

6 quizzes (120 pts) - these multiple choice quizzes usually have 3 tries available. The Gradebook will record the highest scored attempt.

1 Chain of Transmission Disease Research PPT (100 pts)

1 Final Research Proj (ALW) (100 pts)

5 Lab Activities (5 @ 25 each = 125 pts) **NOTE: Regardless of point total for the overall course, A NO CREDIT for GE Lab will be issued if 4 of the 5 labs are not completed with at least 75% of points!**

1 Midterm Test (50 pts)

REQUIRED LAB MATERIALS

Each lab will use its own set of household materials you probably already have or can get easily at a grocery store or a garden center. They are designed to be able to be completed in your kitchen or bathroom.

Lab 1: Egg Osmosis: 1L white vinegar, 2 raw eggs (in shell), 2 plastic or glass clear cups or glasses, 1 bottle Karo (tm) Corn Syrup and one bottle Store brand (generic) corn syrup, paper towels, small postal scale like this one from Costco for \$34.99:

<http://www.costco.com/Browse/Product.aspx?ProdId=11704206> (note: this is probably the most expensive item you'll need for the course other than your book, computer, and camera) considering what "Live" classes charge for lab fees and lab manuals, you're still way ahead!

Lab 2: ENZYME LAB - 1 500 mL bottle FRESH Hydrogen Peroxide, 5 clear plastic cups or glasses, chicken liver, beef liver, pork liver, or if you prefer, yeast will work as well. You'll also need to have a source of crushed ice, saucepan and stove or hotplate so you can modify the temperature of your liver. This one's kind of gross but you will learn a lot if it's done correctly. Again, using yeast instead of liver will reduce the yuck factor or enable a vegan to do the lab.

Lab 2: ALTERNATE - 1 pkg clear unflavored gelatin, 3 clear plastic cups, 5 marbles, 1 small can cooked pineapple, 1 ounce of fresh raw pineapple. You will need a stove or hot plate to cook the gelatin.

Lab 3: Houseplant Cutting / Cell Cycle Lab: - One common houseplant (Pothos, Coleus, Philodendron, Spider plant work well), 5 clear plastic cups or glasses, 1 small bag of potter's Perlite mineral (white pumice lava), water and a sunny window or light source.

Lab 4: Paper / Online simulation activity "Coin Toss Kids". you'll only need a coin to toss, some colored pencils and a scanner or a paint program to make your picture.

Lab 5: Frog mRNA simulation activity "What color is your frog". you'll only need colored pencils, a scanner or a paint program to make your picture.