Bio4241 - Advanced Genetics - Winter 2016
Course Syllabus

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Course webpage:
http://www.mun.ca/biology/scarr/Bio4241.html

Part I: Presentation & Analysis of Classic Genetics Experiments:
In groups of four, present a classic experiment in genetics, using the methods & experimental data from original scientific paper.

One 60 mins @ + 10–15 mins @ for discussion & questions.
I will demonstrate the approach with a lecture on Luria & Delbruck (1943) in the first lecture

1. Consult original paper (provided as PDF).
2. Consult discussion in Bio2250 textbook as necessary
3. Prepare a web-based lecture [HTML, PowerPoint, or Prezi] à la Biol2250
   Methods, Data (Figures & Tables), Results & Conclusions from original.
   Emphasize logic of experiment;
   Provide a critical review of the experiment.
4. Present the paper as a scientific experiment on its own terms
   Provide necessary technical & mathematical background

Part II: Presentations of modern papers & book chapters: TBA

10% of the mark will be deducted if the web materials are not available 24 hours before presentation, 10A Mon & 10A Wed.

Grading Scheme:
40% Class presentations
   15% on Part I
   25% on Part II
20% Class participation
   Group n+1 will lead discussion on Group n presentation
16% Midterm (Essay-type: 2 @ 8%)
24% Final (Essay-type: 3 @ 8%)

Midterm & Final exams are essays from the presentations, assigned as part of the presentations.

For the midterm exam, I will select three of these questions at random: you will write 2 page essays on any two of these of your choice.
For the final, you will write three essays from among four possibilities.
The essays will be prepared ahead of time, and that the quality of the presentation will reflect this.

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