

### Syllabus

Instructor: Mark Hiller [mhiller@goucher.edu](mailto:mhiller@goucher.edu) 337-6306 HS G42

Readings: Required reading material will be provided in class or in the BIO328 Blackboard as a PDF file. Check the **Blackboard** regularly for updates. Primary scientific literature and review articles necessary for specific projects will be selected by the student using PubMed database (we will review in class).

Useful additional reading:

Strachan and Read. Human Molecular Genetics 3. 2004. Garland Publishing.

McMillan. Writing Papers in the Biological Sciences. 2001. Bedford/St.Martins's Press.

Carolina Drosophila Manual. Carolina Biological Supply Company.

<http://www.ncbi.nlm.nih.gov/Entrez/>

useful links to genetic information and data on the Internet hosted by the National Center for Biotechnology Information

Attendance: Active participation in all classes is required. In addition, because of the nature of *Drosophila* genetics, some lab work outside of normal class hours will be required.

Grades: 20 % Final lab report  
65 % total of preliminary lab reports (see below)  
10 % lab participation  
5% lab notebook

Lab Report: The BIO328 lab will conduct a semester long series of experiments characterizing a newly isolated *Drosophila*. After each experiment (many experiments will last more than one week), each student will put together a figure or table and a corresponding "Results" and "Materials and Methods" sections describing the experiment and the results. Each of these preliminary reports will focus on a single experiment and should be complete but concise. At the end of the semester, you will compile all figures into a final lab report detailing the semester's work. An Abstract, Introduction and Discussion sections will be included only with the final lab report.

Lab Notebook: Keep a three ring binding with all lab data. A complete notebook is critical for writing the preliminary and final lab reports. All data used in the reports will come from your lab notebook. As usual, the complete date should be on every page (many experiments will last several weeks). Laboratory methods pages (class handouts) will be added throughout the semester. I will collect notebooks at the end of the semester and at least once during the semester.

Reminder: All students are bound by the standards of the Academic Honor Code, found at [www.goucher.edu/documents/General/AcademicHonorCode.pdf](http://www.goucher.edu/documents/General/AcademicHonorCode.pdf)