

BI 102L General Biology Laboratory
Fall 2001 Chaminade University of Honolulu
Tuesdays 11-1:50 PM

Dr. Joan Kuh
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Office Hours: **MWF 11-12; TTh 9:30-10:30**
or by appointment

This laboratory course accompanies the Biology 102 lecture course. *However, it is a distinct course from the BI 102 lecture for which a separate grade will be assigned.* The aim of the laboratory course is to provide the student with practical experience in the concepts presented in lecture including concepts from evolutionary biology, systematics and anatomy/physiology of plants and animals. Preparation of written laboratory reports and maintenance of laboratory notebooks will provide experience in collecting, interpreting and reporting experimental data. Additionally, completion of a small research project and report during the second half of the semester will expose the student to the method of scientific inquiry.

Course Information

Text: There is no text for this course. Handouts will be provided to you for each lab.

Laboratory preparation/Quizzes: Read the laboratory handouts BEFORE you come to lab. This will greatly facilitate completing the lab for that day. Quizzes will be frequently given at the beginning of laboratory to assess whether you are ready for lab.

Attendance: Attendance is mandatory for the laboratory. There is only one laboratory section for this course so it is essential that you come to lab every Tuesday at 11 AM. This includes labs during which field trips. Laboratory absences that are approved by the instructor PRIOR to the lab are excused. ***Unexcused absences will result in the lowering of the final grade by one letter grade for each unexcused lab absence.

Laboratory notebook: All students will be required to maintain a laboratory notebook into which laboratory handouts, reports and questions will be placed. These notebooks will be collected at the time of the first and second midterm exams. The notebooks will be graded and returned to you by the next laboratory meeting, or in the case of the last notebook collection, during the final exam for BI 102.

Laboratory reports: Laboratory reports will be required. Tentatively three laboratory reports are scheduled during the semester including one on a small research project to be completed during the second half of the semester. Details on the format of the reports will be provided to you during

Assignments: There will be four assignments during the course of the semester. These are associated with the scientific method lab, the nutrition lab and with the two field trips. Requirements to complete these assignments will be discussed at each of these labs.

Research project: A short, easily do-able research project is tentatively scheduled for the second half of the semester. The projects will be designed to be completed over two laboratory meetings. Additional information will be provided after the first midterm.

Late notebooks and reports: The Biology Department has a policy on late notebooks and papers that I will STRICTLY adhere to (no exceptions). This policy states that notebooks/reports received one day late will be penalized by one grade level. No credit will be given for materials received more than 24 hours after the deadline. ***It is important that when submitting late materials that you either directly hand it in to me or place the materials in my mail box in Henry Hall 13 after it has been dated and signed by another faculty member in the office. Unsigned/undated late materials will receive no grade.

Laboratory midterm exams: Two laboratory practical exams are scheduled during the semester and will cover material completed prior to the exam. For the second exam, only material covered since the first midterm exam will be included. The midterm exams will include "station" questions. Station questions are those questions in which the student has a fixed amount of time to identify organisms under a microscope or identify a structure from a dissection or relate an objective from a particular laboratory etc.

Grade determination: As mentioned earlier, separate grades will be given for lecture and lab. Tentatively, grades will laboratory courses follow the 90-80-70 percentiles for As, Bs and Cs respectively. The laboratory grade will be determined from the following:

Lab midterm examinations [2 @ 100 points each]	200 points
Lab reports [2 @ 100 points each]	200 points
Research project/report	100 points
Assignments [4 @ 20 points each]	80 points
Lab notebooks "checks" [2 @ 25 points each]	50 points
Quizzes [5 @ 10 points each]	50 points
Total	680 points

Class standing: I will try to keep the class informed of the class curve particularly after the first midterm exam. Students with D or F grades will receive deficiency notices prior to the November 9 drop date deadline. Students who receive one of these notices are strongly encouraged to make an appointment to see the instructor to discuss their further progress in the course.

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Laboratory schedule: The following is a TENTATIVE schedule of labs for this course. Changes may be made as deemed necessary during the course of the semester. Any changes will be announced as soon as possible.

<u>Date</u>	<u>Topic</u>
Aug 28	<i>Introduction/ Video "Death by Design "</i>
Sep 04	<i>The Scientific Method and Scientific Writing</i>
Sep 11	<i>Evolution and Population Genetics</i> (Lab report required/due 1/23)
Sep 18	<i>Evolution on an Island</i>
Sep 25	<i>Systematics Lab</i>
Oct 02	<i>Microbes, Microscopes and Antibiotic Sensitivity</i> (Lab report required/due 2/20)
Oct 09	MIDTERM I (notebooks due)
Oct 16	<i>Plant Systematics---Field trip to Foster Botanical Garden</i>
Oct 23	<i>Plant Anatomy and Reproduction</i>
Oct 30	<i>Earthworm Anatomy and Physiology</i>
Nov 06	<i>Marine Biology and Systematics---Field Trip to Waikiki Aquarium</i>
Nov 13	<i>Mammalian Anatomy & Physiology---Part I</i>
Nov 20	<i>Mammalian Anatomy & Physiology---Part II</i> ***Research reports due
Nov 27	<i>Nutrition Lab</i>
Dec 04	MIDTERM II (notebooks due)