

GRADING OF BIOLOGY 741

Midterm and Final Exam (Final 10:00-11:30 Fri, 15 Dec.) -	20 pts
Lecture/Discussion (Preparation and Participation) -	5 pts
The Laboratory Assignments -	75 pts

The midterm and final exams will be short answer exams addressing questions discussed during the lecture/discussion sessions. A question sheet will be provided just prior to each exam that will address all or most of the questions that appear on each exam.

The 5 pts for Lecture/Discussion Preparation and Participation will be assigned based on your presence and involvement in the Wednesday morning sessions.

Laboratory Assignments are due **13 October & 10 November**; Final Report due **13 December**. The laboratory assignments and final report should include the following materials and micrographs. Each micrograph should be accompanied with a brief explanation of its preparation, should be fully labeled and include a μm bar.

- *1. One page description of the best web based MSDS locations with access for electron microscopists at SFSU.
- *2. Two page description of the SEM or TEM preparation of material of your choice. References must be included.
- *3. 2 - 100 mesh formvar/carbon stabilized grids.
4. 1 - grid with stained sections of the tissue of your choice (10pts).
- **5. 1 - trimmed block with tissue ready to be sectioned.

The following electron micrographs:

- **6. 1 - in focus hole with the objective aperture in place (4X5 photoshop print).
1 - slightly underfocus hole with the objective aperture in place (4X5 print).
- *7. 1 - SEM of latex spheres **and** your group mag. calibration for the ISI and
1 - TEM of latex spheres **and** your group mag. calibration for the Philips.
- **8. 1 - TEM micrograph of coccolith or other microfossil replica (4X5 print).
1 - SEM micrograph of coccolith or other microfossil. (4X5 print) (10pts).
9. 2 - TEM micrographs of tissue. (1 < 7,500X, 1 > 25,000X **final print mag.** (10pts).
10. 2 - SEM micrographs of a second tissue of your choice (10pts). (1 < 7,500X, 1 > 25,000X **final print mag.**)
11. 1 - digital image and description suitable for posting on our web site. All labels and μm marks for this requirement should appear on a separate layer, **not** directly on the image.

Each assignment is worth either 5 or 10 points. Those with an asterisk (1, 2, 3, 7) are the laboratory assignments due on the **13th of October**. Those with two asterisks (5, 6, 8) are due on the **10th of November**. The remainder (4, 9, 10, 11) should appear as the final assignment. One (1) of the earlier laboratory assignments may be resubmitted by the **29th of November**. Resubmissions will be graded and used as the final grade for that assignment. The final assignments are due no later than the **13th of December**. Final assignments will not be returned. Only under unusually extenuating circumstances will there be a makeup of assignments; late assignments will not be graded.