

**TENTATIVE LECTURE SCHEDULE**

<b>DATE</b>	<b>TOPIC</b>	<b>READING</b>
26 August	Introduction	pgs 1-12, pgs 296-300
31	Eukaryotic cell structure and general organization of protozoan cells	pgs 13-29, pgs 180-198
2 September	Eukaryotic cell structure and general organization of protozoan cells (cont.)	
7	General features of the major groups of protozoa, relationships among the groups, and ecological associations of the protozoa with emphasis on symbiosis	pgs 30-43
9	The flagellates with emphasis on nutritional modes and specialization of the flagella	pgs 44-86
14	The flagellates - Organization of the mastigont system	pgs 44-86
16	TRIP TO THE LIBRARY - meet in 426A J P Leonard Library	
21	The flagellates - Serial design with increasing complexity The opalinids - A separate phylum?	pgs 164-166
23	The amoebae - Amoeboflagellate relationships	pgs 170-179
28	The amoebae - Emphasis on pseudopodial form The amoebae (cont)	pgs 144-151 pgs 129-135
30	The apicomplexa - Schizogony, gamogony, and sporogony; alternation of generations and introduction to sexuality in the protozoa	pgs 86-99
<b>5 October</b>	<b>Exam 1</b>	
7	The apicomplexa - Specialization in parasitism	pgs 86-99
12	The cnidospora - Specialized parasites of invertebrates with emphasis on biological control	pgs 154-158, pgs 166-170
14	TRIP TO THE COLLABORATORY - meet in 229 Burk Hall.	
19	The ciliophora - The ingestive feeding specialists	pgs 99-124
21	The ciliophora - An example of morphogenesis in the protozoa with emphasis on stomatogenesis	pgs 267-271
26	The ciliophora - Ciliate genetics	pgs 252-255
28	The ciliophora - Non-mendelian inheritance, an example of positional information and the propagation of traits	
2 November	Return Trip to the Library - Reference Room	
<b>4</b>	<b>Exam 2</b>	
9	Motility in the protozoa - Mechanisms of flagellar activity	pgs 205-222
11	Ingestion, digestion, egestion, and osmotic control in the protozoa - Where does the contractile vacuole fit in?	pgs 222-240 pgs 199-205
16	Nuclei and sexual reproduction	pgs 241-255
18	Nuclei, sexual reproduction, and polymorphism	pgs 256-271
23	Morphogenesis and reproduction	pgs 256-271
30	Molecular biology	pgs 272-283

2	December	Taxes - Mechanotaxis, phototaxis, and chemotaxis	pgs 284-295
7		Ecology - How does this all fit together - a view to the role of protozoa in the grand scheme of nature and sludge	pgs 296-327
9		Epilogue	
14		<b>Exam 3 (8:00 - 10:30)</b>	

TEXT - Hausmann, K. et al., *Protistology*, 2003.

<http://online.sfsu.edu/~antipa/biol450/>

The Final Grade in Biology 450 will be based on your total accumulated points:

First Exam	100 pts	
Second Exam	100 pts	
Third Exam	100 pts	
Exam Questions (2X5X10)	100 pts	
TERM PAPER	100 pts	<b>OR</b>
Liter. Assigns.	60 pts	
Total Possible	500 pts	

**EXAM QUESTIONS** - Up to two multiple choice questions will be submitted on line for each of up to ten lecture/reading sequences. They are due no later than **September 5th, 12th, 19th, 26th, October 3rd, 10th, 17th, 24th, 31st, November 14th, 21st, December 5th, 12th** and represent material covered since the last submission. Details will be provided in class. Each question you submit will be worth up to 5 points.

**TERM PAPER** - This assignment consists of the identification of a narrow topic of interest to you and the preparation of a review of this subject of the basis of your familiarity with the current, original research on the topic. It is expected that your presentation will be original, current, expert, and written in your own words. The length of the paper will vary depending on how well the topic is defined such that it can be covered in depth. Your selection of a topic is an extremely important part of this assignment and must be made early in the semester. Since any area of biology can be used as a topic, selection should be done with care; some topics will be very easy to research as compared with others. The term paper is due on **Dec. 2nd**.

**OR**

**Literature Assignments** - These assignments consist of concise reviews (no more than one page) of original research articles published during the past few years. All students will be expected to prepare one of these assignments due on **September 16th**; those students opting for the literature assignments as opposed to the term paper will need to complete a total of six (6) additional 10 point literature assignments due on or before **November 25th**.

**Extra Credit** - 1) The supplementary material for this class is in progress; this provides an opportunity for you to contribute. Since you will be immersing yourself in the literature, you should be in a good position to locate additional material to be added to/or replace topics for our consideration. This could include illustrative material or you could identify material of omission and provide references to good or recent review articles or good papers. I would like to receive this extra credit assignment, preferably as a single document from each of you who wishes to contribute. Please give me documented and referenced material no later than **December 15th**. 2) The one literature assignment above (due September 16th) will be an extra credit assignment for all students. 3) A WEB assignment to be discussed.

**Drops and Withdrawals** - The drop period for Fall 2004 is 26 AUGUST through WEDNESDAY, 22 SEPTEMBER and students are responsible for initiating the drop either through the WEB or by touch-tone. From October 29th to November 15th the request for withdrawal must be serious and compelling and follow the guidelines set forth by the University and the Department of Biology. All withdrawal requests during this period require written documentation from an independent third party and a current, unofficial SFSU transcript. From November 16th - December 10th withdrawals are not normally permitted. Should you have further questions, please refer to the departmental withdrawal policy as stated in the memo to all students and faculty which is available in the Department of Biology office in the Franciscan Building.