ORGANISMIC BIOLOGY--BIOLOGY 201 (Fall 2000)

Instructor: Ari Jumpponen
Office: Ackert Hall 125
Homepage: http://www.ksu.edu/biology/bio/faculty/jumpponen/jumpponen.htm
Phone: 532-6751
Email: ari@ksu.edu
Office Hrs: By appointment; call, email, or meet me after class.

The first half of Biology 201 will cover plants and related organisms. From this portion of the course you should gain an appreciation for the tremendous diversity in plants, their evolutionary history, some representative life cycles, adaptive characteristics, and evolutionary/structural/functional relationships. That's a lot to cover in half a semester; detailed examination of many topics must be sacrificed. I know this will deeply disappoint most of you. I would, however, advise you to start reading the material now; don't leave it until few days before the exam. This is a 5 credit class and substantial as such. Accordingly, this class will, and is supposed to, take a lot of your time this semester. In return, I hope, you will gain more in depth appreciation for life and the diversity on our planet.

Organismic biology is the course upon which more advanced courses in biology build. So please, for your own sake, make sure that attendance of lecture and lab has high priority on your agenda. Attendance is particulary important because the required text for this half of the class (a customized version of *Botany* by Moore/Clark/Vodopich) covers much more material than we will in class. Thus, for you to know what material to study and the level of understanding required for this course, you need to be in class! However, I would encourage any student planning on specializing in any aspect of plant biology to take advantage of the extra material in Moore et al.

Exam questions will come from lectures and relevant text. Lab exams will include material covered in labs. Each test is worth 100 pts., totalling 1,000. There will be 4 tests on lectures, 4 lab tests and a final exam including a set of questions from both instructors, each, again, worth 100pts. I will make an effort to emphasize those areas I think are important. Some old exam questions are accessible on Alan Knapp's homepage (http://www-personal.ksu.edu/~aknapp/). This years are likely to be different. Mine will appear in due course in the web as well. Unfortunately, this will be only after I have made these exams and thus be of very little use for you.

***Tentative* Course Outline**

DATE	SUBJECT	MOORE ET AL.	LAB #
8/21	I. Intro., Plants & History		
8/22	No lab; use this time wisely, e.g., reading for following day's class…		
8/23	II. Diversity and classification	*24.5 — 24.8; 24.15 — 24.20*	
8/24	LAB-- Introduction to Plants		1
8/25	III. Evolution & Unique features of plants	*24.5 — 24.8; 24.15 — 24.20*	
8/28	IV. Plant cells & tissue	*3; 13*	
8/29	LAB-- Plant cells		2
8/30	V. Photosynthesis	*7*	
8/31	LAB—Photosynthesis		3
9/01	VI. Photosynthesis (cont.) **NOTE:** Last day to withdraw and get 90% refund on fees	*7*	
9/04	**Labor Day – No class**		
9/05	LAB-- Start Fast-Plants		12 & 13
9/06	VII. Fungi	*26*	
9/07	LAB—Fungi		5
9/08	VIII. Algae	*27*	
9/11	IX. Bryophytes	*28*	
9/12	LAB—Algae		4
9/13	X. Vascular systems	*29*	
9/14	LAB-- Bryophytes		6
9/15	XI. Ferns	*29*	
9/18	**LECTURE EXAM**		
9/19	LAB—Ferns		7
9/20	XII. Seed Plants-Gymnosperms	*30*	
9/21	LAB—**EXAM**		
9/22	XIII. Flowering Plants-Angiosperms	*31*	
9/25	XIV. Angiosperms (cont.)	*17*	
9/26	LAB—Gymnosperms		8

9/27	XV. Embryogenesis	17	
9/28	LAB—Angiosperms		9
9/29	XVI. Plant growth & structure	*14, 15*	
10/2	XVII. Plant growth & structure (cont.)	*15, 16*	
10/3	LAB-- Embryology		10
10/4	XVIII. Plant-Environment Interactions	*18, 19*	
10/5	LAB-- Plant structure		11
10/6	**LECTURE EXAM**		
10/9	XIX. Plant-Environment Interactions (cont.)	*18,19*	
10/10	LAB-- Environmental and Chemical Reg. & Finish Fast-Plants		12 & 13
10/11	XX. Plants and Environmental Issues		
10/12	LAB--**EXAM**		
10/13	XXI. Current Topics in Plant Biology		
10/16	Dr. Smith will start introducing the world of warm and fuzzies – also known as charismatic fauna.		
12/12	**FINAL EXAM** (Wed., 11:50 am - 1:40 pm)		

NOTE: Readings on reserve in the library will be assigned during the semester. Dr. Smith has reserved additional material for this class, I decided not to do that this time.