CONCEPTS IN BIOLOGY
BIOLOGY 120 - FALL 1998
Dr. Eloise Carter

Proposed Lecture Schedule

			Chapters
Aug.	26	Introduction to course; scientific inquiry	1
	28	Biological themes	1
	31	Ecosystem structure and function; energy flow	37
Sept.	2	Ecosystems: nutrient cycling; begin photosynthesis	37, 5
	4	Photosynthesis	5
	7	***LABOR DAY***	
	9	Respiration	6
	11	Biomolecules: water and carbohydrates	2
	14	Biomolecules: lipids, protein and nucleic acids	2
	16	Overview of ecology, energy and biomolecules	
	18	**Exam I: through biomolecules**	
	21	Cell structure and function	3
	23	Cellular membrane and transport	3
	25	Cell reproduction: mitosis	7
	28	Cell reproduction: meiosis	8
	30	Overview of cell reproduction	
Oct.	2	Mendel and genes	9
	5	Mendelian genetics	9
	7	Genes and chromosomes	10
	9	Human genetics	10
	12	***FALL BREAK***	
	14	DNA and replication	11
	16	**Exam 2: through human genetics**	
	19	Protein synthesis	12
	21	Application of molecular genetics	13
	23	History of evolutionary thought	14
	26	Evidence for evolution	14, 16
	28	Diversity of life	18,19,20
	30	Animal physiology: digestion	30
Nov.	2	Nutrition	30
	4	Animal physiology: gas exchange	29
	6	Animal physiology: circulation	27
	9	Immune response	28
	11	Animal reproduction	34
	13	**Exam 3: through immune response**	

	16	Animal development	34
	18	Plant diversity and evolution	19
	20	Plant form and function	22
	23	Plant reproduction	24
	25	THANKSGIVING	
	30	Pollination biology	24
Dec.	2	Plant physiology	23
	4	Botanical hunt	
	7	Review and evaluations	
	10	**FINAL EXAM - Thursday, 7:00 - 10:00 p.m.**	

Text: *Biology: Concepts and Applications*, Cecie Starr, 2nd Edition, 1994, Wadsworth Publishing Co.

Lecture: Pierce 102: 10-11 M/W/F

Laboratory: Pierce 123: 2-5 p.m., Tuesday, lab manual will be purchased in class

Evaluation:		
	Lecture Exams	300 points
	Laboratory Exams	150
	Writing- Journals	50
	Class and lab assignments	25
	Final Exam	175
	TOTAL POINTS	700

Grading Scale:		
	A	90-100
	B	80-90
	C	70-80
	D	60-70
	F	below 60

Plus and minus grades are given in this course.

Lab Schedule

Biology 120 Concepts in Biology
Fall Semester 1998

12 labs over 15 weeks.

Week	Day	Date	Topic	Pages
1	Wed.	Aug. 26	No lab	
2	Wed.	Sept. 2	LAB #1: Scientific Investigations	
3	Wed.	Sept. 9	LAB #13: Aquatic Ecology	
4	Wed.	Sept. 16	LAB #3: Photosynthesis/Respiration	
5	Wed.	Sept. 23	LAB #2: The Microscope; The Cell	
6	Wed.	Sept. 30	LAB #4: Cellular Membranes and Transport	
7	Wed.	Oct. 7	LAB #6: Cellular Reproduction	
	Lab Practical Exam #1			
8	Wed.	Oct. 14	No lab	
9	Wed.	Oct. 21	LAB #6: Human Genetics/DNA Fingerprinting	
10	Wed.	Oct. 28	LAB #10: Digestive System	
11	Wed.	Nov. 4	LAB #11: Circulation and Respiration	
12	Wed.	Nov. 11	LAB #12: Reproduction and Development	
13	Wed.	Nov. 18	LAB #8: Plant Diversity and Anatomy	
14	Wed.	Nov. 25	Thanksgiving Break	
15	Wed.	Dec. 2	Open lab; Review for Practical	
	Thurs.	Dec. 3 (8:00 a.m.)	**Lab Practical Exam #3**	
16	Wed.	Dec. 9	No Lab (Reading Day)	