Introductory Biology - Biology 141
Course Schedule - Spring 1997
Dr. Eloise Carter

			Chapters
Jan.	15	Science as a Way of Knowing	1
	17	Major themes in Biology	1
	20	Martin Luther King, Jr. Day	
	22	Heirarchies: beginning with living chemistry and water	2,3
	24	Building biological macromolecules: carbohydrates and lipids	4,5
	25 (Thur.)	Meet in the Library at 8:30 a.m. Scientific Literature and Research	
	27	Proteins and nucleic acids	4,5
	29	Structure and function revealed in cells	7
	31	Membrane structure	8
Feb.	3	Cellular transport	8
	5	Cells: Review and recapitulation	
	7	Fundamentals of energy transformations: enzymes, ATP and electron carriers	6
	10	Cellular respiration I - Glycolysis	9
	12	**EXAM I (through membrane transport)**	
	14	Cellular respiration II - Transition and the Krebs Cycle	9
	17	Cellular respiration III - Chemiosmosis and the Electron Transport System	9
	19	Preview and recapitulation - Accounting Day	

	21	Homage to photosynthesis	10
	24	Photosynthesis I: the light dependent reactions	10
	26	Photosynthesis II: the light independent reactions and variations (C4 and CAM)	10
	28	Review and recapitulation; Problems	
Mar.	3	Cell reproduction: mitosis	11
	5	Sexual reproduction: meiosis	12
	6(Thur.)	**EXAM II - 8:00 - 9:30 a.m. (through photosynthesis)**	
	7	Chromosomal mutations and gametogenesis	
	10-14	***SPRING BREAK***	
	17	Mendelian inheritance, a new vocabulary and paradigm	13
	19	Understanding the basis of inheritance	13,14
	21	The buffet of genetic expression	13,14
	24	DNA structure and replication	15
	26	Molecular genetics I: transcription and the genetic code	16
	28	Molecular genetics II: translation and genetic mutations	16
	31	Control of gene expression	18
April	2	Charles Darwin and the changing paradigm	20
	3(Thur.)	**EXAM III - 8:00 - 9:30 a.m. (through genetics)**	
	4	Evidence for evolution	20,23
	*Monera/Protista/Fungi - Special Assignment		
	7	The power of molecular evolution	

9	Adaptations to the land environment	27
11	Bryophytes and seedless vascular plants	27
14	Sexual reproduction in seed plants	27,34
16	Plant structure and function	31
18	Transport in plants	32
21	Ecology I: population and community dynamics	47,48
23	Ecology II: ecosystem structure and function	49
25	Ecology III: ecological perspectives	
28	Review and recapitulation: The Big Themes Revisited	

Monday, May 5 ***FINAL EXAMINATION*** **2:00 - 5:00 p.m.**

TEXT: *Biology*, N.A. Campbell, 1996, 4th edition, Benjamin/Cummings Publishing Co., Inc. Study Guide is available.