Introductory Biology - Biology 141
Course Schedule - Fall 1998
Dr. Eloise Carter

			Chapters
Aug.	26	Science as a Way of Knowing	1
	28	Major themes in Biology	1
	31	Heirarchies: beginning with living chemistry and water	2,3
Sept.	2	Building biological macromolecules: carbohydrates and lipids	4,5
	4	Proteins and nucleic acids	4,5
	7	LABOR DAY	
	9	Structure and function revealed in cells	7
Thurs.,	10th 8:30-9:30am	Scientific Literature and Research Meet in the Library	Handout
	11	Membrane structure	8
	14	Cellular transport	8
	16	Fundamentals of energy transformations: enzymes, ATP and electron carriers	6
	17(Thurs.)	**EXAM I 8:00 a.m. – 9:30 a.m. (through membrane transport)**	
	18	Cellular respiration I - Glycolysis	9
	21	Cellular respiration II - Transition and the Krebs Cycle	9
	23	Cellular respiration III - Chemiosmosis and the Electron Transport System	9
	25	Preview and recapitulation - Accounting Day	
	28	Homage to photosynthesis	10
	30	Photosynthesis I: the light dependent reactions	10
Oct.	2	Photosynthesis II: the light independent reactions and variations (C4 and CAM)	10
	5	Review and recapitulation; Problems	
	7	Cell reproduction: mitosis	11
	9	Sexual reproduction: meiosis	12
	12	***FALL BREAK***	
	14	Chromosomal mutations and gametogenesis	
	15 (Thurs.)	**EXAM II 8:00 a.m. - 9:30 a.m. (through photosynthesis)**	
	16	Mendelian inheritance, a new vocabulary and paradigm	13

	19	Understanding the basis of inheritance	13,14
	21	The buffet of genetic expression	13,14
	23	DNA structure and replication	15
	26	Molecular genetics I: transcription and the genetic code	16
	28	Molecular genetics II: translation and genetic mutations	16
	30	Control of gene expression	18
Nov.	2	Charles Darwin and the changing paradigm	20
	4	Evidence for evolution	20,23
	5(Thur.)	**EXAM III 8:00 a.m. - 9:30 a.m. (through genetics)**	
	6	The power of molecular evolution	23
	8	Microbiology: Viruses, Prokaryotes, Protists	25,26
	11	Adaptations to the land environment	27
	13	Bryophytes and seedless vascular plants	27
	16	Sexual reproduction in seed plants	27, 34
	18	Review of plant evolution	
	20	Plant structure and function	31
	23	Transport in plants	32
	25	**THANKSGIVING HOLIDAYS**	
	30	Ecology I: population and community dynamics	47,48
Dec.	2	Ecology II: ecosystem structure and function	49
	4	Ecology III: nutrient cycling	49
	7	Review and recapitulation: The Big Themes Revisited	

FINAL EXAMINATIONCarter - 11A - Wednesday, Dec. 16th 9:00 a.m. - 12:00 p.m.

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