BSCI105 topics	BSCI106 topics
Introduction to Basic Cell Structure: Tour of the Cell	Darwin, Wallace, and Natural Selection
Chemistry is the Basis of Life	Mendel/Meiosis
Water in the Context of Biology	Particulate Inheritance: Mendel/Meiosis cont.
Carbon is the Backbone of Organic Molecular	Types of variation: Genotypes, Phenotypes and
Diversity	Evolution
Biological Macromolecules I: Carbohydrates,	Natural Selection Revisited
Lipids, Nucleic Acids	
Biological Macromolecules II: Proteins	Hardy-Weinberg
Thermodynamics and Chemical Reactions: Free	Disease as an Evolutionary Process Darwinian
Energy	Medicine
Most Reactions in a Cell Require a Catalyst: Enzyme	Sex and Sexual Selection
Structure and Function	
Biomembrane Structure and Function	On the origin of species- How does the tree of life branch?
Membrane Transport I: Passive and Active Transport of Small Molecules	The tree of Life: Phylogenetic Reconstruction
Membrane Transport II: Bulk Transport; Endocytosis	Macroevolution
and Exocytosis	
Introduction to Metabolism and the Importance of	Origin of Life
ATP	
Cellular Metabolism: Glycolysis and Fermentation	Evolution of Prokaryotes
Aerobic Respiration and Oxidative Phosphorylation	Eukaryotes and the rise of multicellularity
Photosynthesis I: Introduction and Light-Dependent	Evolution of plants: Land Ho! (Part 1)
Reactions	
Photosynthesis II: Light-Independent Reactions and	Fungi
Alternative Pathways	
The Molecular Basis of Inheritance and The Central	The shape of life on the move- Animals I
Dogma	
DNA Replication	Animals II: Land Ho! (part 2)
Transcription of DNA into RNA	Hominid evolution
Translation of RNA into Protein and Protein	Introduction to Ecology-
Targeting	
Regulation of Gene Expression in Prokaryotes	Population Ecology
Regulation of Gene Expression in Eukaryotes	Community Ecology
Biotechnology	Species Interactions: Competition
Cell Communication: Signaling and Transduction	Predation Ecology
Structural and Functional Aspects of the Cell	Symbiosis/ Mimicry
Division Cycle	D is F 1
Structural and Functional Aspects of the Cell	Parasite Ecology-
Division Cycle	Eggsystems
	Ecosystems
	Coevolution
	Conservation Biology/ Extinctions
	Invasive Species: Examples & implications