DEPARTMENT **SVHS SCIENCE** COURSE **BIOLOGY IH (2009-2010)**

	Standards	Essential Questions	Content	Skills	Assessment	Activities
August 25-31	None	What will I be learning in Biology? Why should I try for an "A" instead of a "D"? How does citizenship affect my overall class performance?	Registration Introduction Pre-Test	Practice test-taking skills.	Pre-Test Course Expectations Scavenger Hunt	Review Course Expectations Pre-Test
September September 7 (Labor Day)	N12A1-N12A4; CCSD 1.1-1.9 [**Nature of Science to Be Incorporated throughout the course (CCSD Standards 1.1-1.9)**]	How can I apply the scientific method to a problem? What are the career opportunities in the Biological Sciences?	Scientific Method	Explain and give examples of the scientific method. Design and conduct experiments. Write a lab report using the correct format. Practice Cornell Notes.	Homework Lab Report Test or Quiz Group Project	Scientific Method Graphic Organizer Video Review: *Junk Science* Class Experiment and Lab Report Graphing Assignment Group Activity: Evidence and the Media
		How can I be safe in this class?	Safety/Lab Equipment	Practice proper safety techniques in the lab. Learn to use lab instruments properly.	Correct/incorrect Safety Posters Lab Equipment Identification Sheet	Demonstrations Lecture
		Why is the metric system used in science?	Metric Measurement	Solve metric conversion problems. Use the appropriate units of measurement.	Metric Lab Worksheet	Lab: Metric Measurement
	L12B2, L12B3; CCSD 3.7, 9.1 [**Human Biology to be completed and reviewed in the 3rd Quarter (CCSD Standards 9.1-9.4)**]	How are cells organized according to their functions?	Levels of Organization: Cell, Tissue, Organ, Organ System, Organism	Describe the hierarchy of organization from cell to organism.	Alien Sketch (group activity)	Small-group Activity Lecture
		What are the major structures in the human body and what are their functions?	Digestive, Respiratory, Muscular, Circulatory, Skeletal, and Nervous Systems	Identify structures and functions of the major human organ systems.	Lab Worksheets Homework	Lab: Human Anatomy Skeleton and muscle worksheet Cooperative groups
October October 5: Professional Development Day (no school)	N12A4; P12A4; CCSD 2.1-2.5	Why is knowing chemistry important in understanding biology?	Atomic Structure Bonding Compounds and Mixtures pH, Acids and Bases	Describe atomic structure. Explain the organization of the periodic table. Write chemical formulae.	Chemistry Worksheet Chemistry Quiz Homework	Cereal boxes Activity Atomic model construction pH Lab/Water Lab
		Why is water so important for living things?	Water Properties	Define and investigate the properties of water.	Lab Report for Water and pH Lab	pH Lab/Water Lab