

Blue Valley High School
2014 – 2015 Biology
Scope & Sequence

Unit Number	Semester 1	Time	Dates
	Classroom Procedures <ul style="list-style-type: none"> • Honors work and due dates • Notebook organization • Syllabus and Safety Contract Biology Boot-Camp <ul style="list-style-type: none"> • Introduction to Biology Methods/Lab Write-Ups • Biological Levels of Organization and Characteristics of Life 	1 week	August 18 – August 22
1	Chemistry of Life <ul style="list-style-type: none"> • Chemical Basis of Life (Ch. 4) • Molecules of Life (Ch. 5) 	3 weeks	August 25-September 12
2	Cell Structure and Function <ul style="list-style-type: none"> • Cell Structure & Function (Ch. 6) • Cell Transport 	4 weeks	September 15-October 9
3	Conservation of Matter and Energy in Organisms and Ecosystems <ul style="list-style-type: none"> • Ecosystems & Conservation (Ch. 36) • Cellular Respiration (Ch. 7) • Photosynthesis (Ch. 8) 	4 weeks	October 13-November 7
4	Cellular Reproduction <ul style="list-style-type: none"> • Mitosis & Meiosis (Ch. 9) • DNA & DNA Replication (Ch. 11) 	4 weeks	November 10-December 12
Finals			December 15-19
	Semester 2		
5	Molecular Genetics <ul style="list-style-type: none"> • DNA & DNA Replication (Ch. 11) • Genetic Engineering (Ch. 13) 	4 weeks	January 5-January 30
6	Classical Genetics <ul style="list-style-type: none"> • Patterns of Inheritance (Ch. 10) • Human Genetics (Ch. 12) 	4 weeks	February 2-February 27
7	Ecology <ul style="list-style-type: none"> • Biosphere (Ch. 34) • Population & Community Ecology (Ch. 35) 	3 weeks	March 2-March 11, March 23-April 3
8	Evolution and Natural Selection <ul style="list-style-type: none"> • Evolution (Ch. 14) • Geologic Time Scale (Ch. 15) 	5 weeks	April 6-May 8
9	Human Environmental Impacts	1 week	May 11-May 15
Finals			May 18-22