Biology 11 at Alexander Academy for School Year 2013/2014

Biology 11: Course Outline
Biology 11 course is split into 7 major topics of Biology: Processes of Science, Taxonomy, Evolution, Ecology, Microbiology, Plant Biology, and Animal Biology

Topics	About
Processes of Science	The development of knowledge, skills, and attitudes for an understanding of science.
Taxonomy	This topic explains the principles and applications of taxonomy, Kingdom system of classification and gives the basic characteristics of the Kingdoms Monera, Protista, Fungi, Plantea, and Animalia.
Evolution	This topic examines the structure and the role of DNA in evolution as well as mechanics of evolution.
Ecology	The topic describes the role of various organisms play in an ecosystem as well as the energy flow and processes in the nature.
Microbiology	This topic describes the characteristics and functions of viruses and bacteria.
Plant Biology	This topic describes the increasing complexity of the phyla within the Kingdom Plantae and the characteristics that place organisms within each phylum.
Animal Biology	This topic describes the increasing complexity of the phyla within the Kingdom Animalia and the characteristics that place organisms within each phylum.

Course Description:
The course consists of lecture sessions as well as laboratory investigations. During lecture sessions, students will work on obtaining the necessary knowledge to master the BC Biology 11 curriculum. This knowledge will be gained through note taking, class discussion, group work, hands-on activities as well as homework/classroom problems. During the laboratory sessions, students will apply the concepts and skills learned in the lectures to develop and master the essential laboratory techniques.

Assessment:
It will consist of questions from a textbook as well as worksheets/handouts, quizzes, assignments, and unit tests. Grade categories and weights are yet to be determined and can change during the school year.

Class expectations and equipment:

All students will be expected to participate in all activities and to challenge themselves to work with a wide range of different people, and to attempt alternative presentation techniques for their work. All students will be expected to keep a neat binder comprising of all their class work and assessments.
Students will need: a calculator (scientific or graphing), colored pens and pencils, scissors, rulers, and binders.

Textbook:
"Biology" by Glencoe Science will be used. Supplemental materials (if needed) will be provided by a teacher.