COURSE SYLLABUS

SCI 1000
BIOLOGY

I. COURSE DESCRIPTION
Biology (SCI 1000) is an examination of God’s living creations beginning at the atomic level, progressing to the cellular level, and then continuing on to the organism as a whole. The course focuses on the Scientific Method to utilize the student’s critical thinking skills. The course incorporates a virtual laboratory component to develop the students’ understanding as well as provide real world applications. The student should have completed or be currently enrolled in Algebra I to be successful in biology.

II. RATIONALE
The study of biology allows students an opportunity to view and better understand life as a big picture. An appreciation of biology gives students a deeper understanding of their creation by a Creator. Students are given the opportunity to examine living organisms as a whole, from the cellular level to that of the organism and on to the ecosystem in which it lives. Biology also allows students the opportunity to explore the significance of history of scientific discovery, as well as the modern day discoveries.

PREREQUISITES
None

III. MATERIALS LIST
Besides your online materials, you will also need technology materials for this course. You are required to have the following:

- Computer and printer
- Microsoft Office or Equivalent
- Scanner or camera

IV. MEASURABLE LEARNING OUTCOMES
The student will be able to:
A. Describe the processes of the scientific method.
B. Describe the basic structure of matter.
C. Discuss what evolution is and what evolution is not.
D. Evaluate laboratory data and draw conclusions.
E. Discuss cell cycles: Both Mitosis & Meiosis
F. Identify different types of cells based on their structure.
G. Classify organisms using the three domain 6 kingdom systems
H. Complete a Punnett Square
I. Discuss the history of genetic research
J. Discuss characteristics and lifecycles of each of the Kingdoms, and name a representative species of each.

V. COURSE REQUIREMENTS AND ASSIGNMENTS
A. Individual lesson assessments
B. 4 Quizzes per Unit
C. 1-Test per module
D. 1 Major Writing Assessment developed over the first semester
   1. Topic/Thesis
   2. Outline
   3. Bibliography
   4. Rough Draft
   5. Final Draft
   6. 2 Comprehensive Semester exams
   7. A total of 18-Laboratory exercises.

VI. COURSE GRADING AND POLICIES
A. Grading Weights
   Lesson Assignments 25%
   Quizzes, Labs and Written Assignments 35%
   Tests 40%

B. Scale
   A  90 – 100
   B  80 – 89
   C  70 – 79
   D  60 – 69
   F  Below 60

VII. Other Policies
A. Academic Misconduct
   See pages 32-35 of your Student Handbook
B. Repeating Assignments
   Students may repeat lesson twice. Quizzes and tests cannot be repeated to gain a higher grade. Quizzes and tests may be reset for technical issues, but a new set of questions will be generated.