

Syllabus: General Science

Course Description

This course serves as an introduction to the natural sciences. The content of this course includes learning the scientific method, analyzing and interpreting experiments and an overview of archeology, geology and paleontology. Students also learn about various other areas of science including the fossil record, the five kingdoms, the human body and the many systems of the human body such as the digestive system, the circulatory system, the respiratory system and the nervous system. At Veritas we wait until now to begin serious science study, having dedicated time to language and math mastery. Now students are ready to start serious study of science and will advance far more quickly in this important field with their language and math foundation. Homework will average 3 - 5 hours per week.

Course Learning Objectives (CLO)

- Explain the steps of the scientific method and explain how this systematic approach to collecting data has built the body of knowledge used in science and technology.
- Identify what science is, its limitations and application in the world around us.
- Formulate a hypothesis, identify the variables involved in the experiment, collect data, analyze the data and draw conclusions that are supported by the data collected.
- Explain the differences between archeology, geology and paleontology, analyze the evidence within each field and draw conclusions about the uniformitarian or catastrophist viewpoint.
- Label and identify the major organs and systems of the human body, explain how each system works and analyze how the individual systems work together to help the body function well.
- Analyze the information presented and draw conclusions about how the evidence supports either the Biblical worldview or the secular worldview.

Attendance and Participation

Both attendance and participation are vital parts of this course; therefore, students are required to attend class sessions and participate actively in discussions. Students are expected to view archives of any missed classes, and are responsible for obtaining any notes or assignments.

Students will be given quarterly grades for both participation and attendance:

- Fifteen percent of the final grade will be attributed to *relevant class participation*. This includes raising one's hand, commenting regularly via microphone/webcam, and using the chat box regularly to contribute to the academic conversation.

- Five percent of the final grade will be attributed to *class attendance*. Being present, being on time, and readiness for class are all factors to be considered in the class attendance grade. *Excused* absences will not detrimentally impact attendance grades.

Grading rubrics are located in the Course Documents folder in each course page.

Assignments & Exams

There are weekly reading assignments in the general science textbooks, and on occasion there may be additional readings supplied by the instructor or from online sources. Students are responsible to keep up with the reading for every class period.

Module tests will be assigned at the end of each chapter. There will be an online quiz for each chapter and one major assignment for the year. Laboratory investigations and experiments are very important. Most of the experiments use household materials. It is important that students complete these exercises in a laboratory science course. These lab activities will be completed at home, though they will be discussed in class. A list of required labs and the written lab format will be posted on the course page. The labs will be submitted by the due date and graded by the teacher.

Students will take a final exam at the end of the first semester and one at the end of the year. The exam at the end of the year will cover material discussed during the second semester only. All exams should be taken in one sitting and proctored by an adult. Unless directed by the teacher, students are not permitted to use any helps, books, notes or the Internet on any portion of exams. All exams are due at 11:55 PM ET on the date shown. Specific instructions will be provided by the instructor.

Evaluation

The final grade is determined on the following basis:

• Class Attendance	5%
• Relevant Class Participation	15%
• Formal labs	15%
• Informal labs	10%
• Homework	10%
• Quizzes	5%
• Tests	20%
• Midterm/Final Assessment	20%

Grading Scale

The following grading scale will apply for all assignments and final grades.

100% – 90% = A; 89% - 80% = B; 79% - 70% = C; 69% - 60% = D; 59% - 50% = E; 49% - 40% = F. All grades are rounded to the nearest whole number.

Late Work

If a student fails to submit any assessment by the due date, it is considered "late."

- Assignments submitted 0-24 hours late will result in a 10 point reduction off earned grade.
- Assignments submitted 24-48 hours late will result in a 20 point reduction off earned grade.
- Assignments submitted 48-72 hours late will result in a 30 point reduction off earned grade.
- Assignments over 72 hours late will not be accepted and the student will receive a zero.
- Parent may request an extension from their child's teacher *prior to the due date* or in the case of an emergency.

While we love grace and the opportunity to exercise it, we also desire to instill a sound sense of responsibility in our students, hence these expectations pertaining to late work.

Exam/Test Retakes

Any student may retake a failed assessment (except quizzes), but can score no higher than 70% on the retake. Retakes must be submitted within one week of the returned, failed test. If the retake is not submitted within one week, the original failing grade will stand.

Academic Dishonesty

Cheating on any assignment is considered academic dishonesty. This includes plagiarism in any form. Cheating will be dealt with in the following manner:

- If a student is caught cheating, he will receive a zero on the assignment and will be placed on academic probation for the remainder of the school year.
- If the same student is caught cheating again, he will likely be expelled.
- No refunds will be granted for students who are expelled due to cheating.
- A Disciplinary Action Form will be submitted by the student's teacher for any instance of academic dishonesty.

Textbooks

The books needed for the class can be purchased through Veritas Press. It is extremely important that the student has the correct version/edition of these materials.

General Science Course Kit (003556)

- Exploring Creation with General Science Student (044310)
- Exploring Creation with General Science Solutions/Tests (044305)

The following items are also required, but unfortunately, are not available through Veritas Press:

- Calculator
- No lab kit required

Course Calendar

See Course Assignment Sheet, located on course page, for class dates, breaks and all assignments and assessments. Class dates and breaks can also be found on the current academic year calendar.