**Northview Academy**

**Environmental Science/ Biology I**

**Syllabus 2018-2019**

**Instructor:** Crystal Yates, Science Department

**Room:** B 120

**Web site:** <http://nvamrsyates.weebly.com/>

**E-mail:** [crystalyates@sevier.org](mailto:crystalyates@sevier.org)

**Northview Academy phone:** 933-5880

**Duration:** 2 semesters

**Class Description:** Biology I is a laboratory science course that investigates the science of life. You, the student, will better understand your role in preserving the natural environment and sustaining life on Earth as you study the relationship between the biotic and abiotic components in the environment and mechanisms that lead to population changes over time. You will study the relationship of form and function from the cellular level to organisms and systems. You will also take an inquiry-based approach through hands-on learning, academic articles and research.

**Link to Standards:** [**http://www.tn.gov/assets/entities/education/attachments/std\_sci\_3210.pdf**](http://www.tn.gov/assets/entities/education/attachments/std_sci_3210.pdf) <http://www.corestandards.org/ELA-Literacy/RST/9-10>

**Text:** *Tennessee Biology*, Glencoe Science is an introductory high school text that covers the major concepts of biology I. It applies concepts from biology I to all forms of life, particularly plants and animals. Textbooks will be issued to each student. It is your responsibility to keep the book in excellent condition and return it at the end of the course. The replacement cost is **$74.40**.

**Materials needed:** The following items are materials that will be needed in my class. If you are unable to purchase any of these items, please let me know so that arrangements can be made. If you are able to purchase any extra items for our class, it would be much appreciated, but please do not feel obligated to do so.

* Three Ring Binder
* Box of 12 colored pencils
* Loose Leaf Notebook Paper
* Pencils & Black or Blue Pens

**Grading Policy:** My grading policy will be consistent with the Sevier County Board of Education Policy, as outlined in the student handbook. Your daily average (class work, homework and quizzes) will be two-thirds of your grade, and your test average will be one-third of your grade. It is very important that you complete and hand in all assignments given by their due date in order to receive credit. I will accept one late assignment for full credit. Any late assignment following will be taken for half-credit. I would like to emphasize that it is your responsibility to collect any make-up work you have missed due to absences, and you will have one day to turn in the work for every excused absence you have acquired. Due dates given for long term assignments are due the day assigned with no exceptions, including excused absences.

**Grading Scale:** Grade Range Points

A 93-100 4.0

B 85-92 3.0

C 75-84 2.0

D 70-74 1.0

F 0-69 0.0

**Classroom Expectations & Consequences:** I expect all students to act respectfully, be responsible, and come prepared. Within each of these three expectations there are several criteria that must be met. Specific criteria include being ready to learn and in your seat when the bell rings, contributing to class discussions, turning in homework on time, etc. I feel confident that you will be able to meet and exceed the expectations that have been listed, but if for any reason you are unable, you will then have consequences to face. Consequences include but are not limited to: reminder of expectation, note and/or call to parent by teacher, and referral to principal. Please refer to the Student Behavior Code in the student handbook for a list of detailed consequences for specific behavior violations.

In addition, each student is expected to budget his/her time appropriately. Students will be reading at least one chapter a week from our textbook. You will be taking notes from the document projector, power point presentations, and verbal lecture. Your study and long term memory skills will be sharpened, as well as listening and note taking skills.

Each student will actively participate in laboratories and assigned dissections. Students will be assigned to a “dissection/ lab/ test team.” Students will assist in all facets of lab and exams given to their group during these activities. Students will be required to keep a notebook (class / lab) that details not just the work done but insight and knowledge gained as a result of working on actual specimens.

**Reminder of Important School Policies:**

* You must be in class when the bell rings.
* Only one student can leave the classroom at a time. Each time a student leaves he/she must sign out.
* Cell phones are not allowed in class. See additional cell phone policy contract.
* Food or drink is not permitted unless it is water.

**COURSE OUTLINE:** Due to the length of this course, several of the chapters will be combined and outlined for you by the instructor.

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1ST SIX WEEKS

Chapter 1 Study of Life

Chapter 2 Principles of Ecology

Chapter 3 Communities, Biomes, and Ecosystems

Chapter 4 Population Ecology

Chapter 5 Biodiversity and Conservation

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2nd SIX WEEKS

Chapter 6 Chemistry in Biology

Chapter 7 Cellular Structure and Function

Chapter 8 Cellular Energy –photosynthesis / cellular respiration

Chapter 9 Cellular Reproduction

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3rd SIX WEEKS

Chapter 14 The History of Life

Chapter 15 Evolution

Chapter 17 Organizing Life’s Diversity

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4th SIX WEEKS

Unit 3 Chapter 10 Sexual Reproduction and Genetics

Chapter 11 Complex Inheritance and Human Heredity

Chapter 12 Molecular Genetics

Chapter 13 Genetics and Biotechnology

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5th SIX WEEKS

Unit 5 Chapter 18 Bacteria and Viruses

Chapter 37 Immune System (Introduction)

Chapter 19 Protists

Chapter 20 Fungi

Unit 6 Chapter 21 Introduction to Plants

Chapter 22 Plant Structure and Function

(Section 2 &3 roots/stems/leaves/hormones & responses)

Chapter 23 Reproduction in Plants

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6th SIX WEEKS

Unit 7 Chapter 24 Introduction to Animals

Chapter 25 Worms and Mollusks

Chapter 26 Arthropods

Chapter 27 Invertebrates

Chapter 28 Fish & Amphibians

Chapter 29 Reptiles & Birds

Chapter 30 Mammals

Please sign below indicating that you and your parent have read the Environmental Science/ Biology I syllabus. Detach lower portion. It will be kept in a classroom file.

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Parent/ Guardian:

I have read my child’s syllabus for Environmental Science/ Biology I \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Parent signature*

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student: (Print name) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I have read the syllabus for Environmental Science/ Biology I \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Student signature*

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_