FVS Biology B Syllabus

Course Description
The course is designed to provide students with the necessary knowledge and skills to become literate, knowledgeable, and proficient in Biology. Biology extends the life sciences to more abstract concepts including, This course includes the study of heredity, genetics, evolution and diversity & classification of living organisms. Emphasis is placed on scientific inquiry and critical thinking. There will be an End Of the Course Test which will count as the final exam. It will cover material from both semesters.

Course Objectives
- **Standard SB2**: Students will analyze how biological traits are passed on to successive generations.  
  - Element A: distinguish between DNA and RNA  
  - Element B: explain the role of DNA in storing and transmitting cellular information  
  - Element C: Using Mendel’s laws, explain the role of meiosis in reproductive variability.  
  - Element D: Describe the relationships between changes in DNA and potential appearance of new traits  
  - Element E: compare the advantages of sexual and asexual reproduction in different situations.  
  - Element F: Examine the use of DNA in forensics, medicine, and agriculture.
- **Standard SB5**: Students will evaluate the role of natural selection in the development of the theory of evolution.  
  - Element A: Trace the history of the theory.  
  - Element B: Explain the history of life in terms of biodiversity, ancestry, and the rates of evolution.  
  - Element C: Explain how fossil and biochemical evidence support the theory.  
  - Element D: Relate natural selection to changes in organisms.  
  - Element E: Recognize the role of evolution to biological resistance (pesticide and antibiotic resistance).
- **Standard SB3**: Students will derive the relationship between single-celled and multi-celled organisms and the increasing complexity of systems.  
  - Element B: Compare how structures and function vary between the six kingdoms (archaebacteria, eubacteria, protists, fungi, plants, and animals).  
  - Element C: Examine the evolutionary basis of modern classification systems.  
  - Element D: Compare and contrast viruses with living organisms.  
  - Element E: Relate plant adaptations to the ability to survive stressful environmental conditions.  
  - Element F: Relate animal adaptations to the ability to survive stressful environmental conditions.

Student Expectations
This course requires the same level of commitment from you as a traditional classroom course would. Throughout the course, you are expected to spend approximately 1 hour per day online working on the following activities:  
- Interactive lessons that include instructional videos and tasks  
- Assignments in which you apply and extend learning in each lesson  
- Assessments, including labs, quizzes, tests, and cumulative exams  
Remember - you are trying to LEARN and UNDERSTAND from what you are doing. Do what you need to do to help (i.e. take notes, outline, etc.) - don’t just rush through the material. Ask questions when you don’t understand something.
**Communication**

You and your teacher will communicate regularly through email, texts, phone calls, and online meetings (such as Skype). Please check and respond to your messages daily. If you ever have any questions, don’t hesitate to reach out to your teacher.

**Grading Policy**

You will be graded on the work you do online and the work you submit electronically to your teacher. The weighting for each category of graded activity is listed below.

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments</td>
<td>10%</td>
</tr>
<tr>
<td>Lesson Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Unit Tests</td>
<td>20%</td>
</tr>
<tr>
<td>Essays</td>
<td>N/A</td>
</tr>
<tr>
<td>Labs</td>
<td>10%</td>
</tr>
<tr>
<td>Projects</td>
<td>30%</td>
</tr>
<tr>
<td>Other Assignments</td>
<td>N/A</td>
</tr>
<tr>
<td>Cumulative Exam</td>
<td>20%</td>
</tr>
</tbody>
</table>

All of the grades that you receive online will be recorded in Edgenuity. To view your grades in Edgenuity, click on: organizer; reports; then, scores and feedback.

**Fulton County Schools Grade Recovery Policy**

Opportunities designed to allow students to recover from a low or failing cumulative grade will be allowed when all work required to date has been completed and the student has demonstrated a legitimate effort to meet all course requirements including attendance. Students should contact the teacher concerning recovery opportunities. Teachers are expected to establish a reasonable time period for recovery work to be completed during the semester. All recovery work must be directly related to course objectives and must be completed ten school days prior to the end of the semester.

**Due Dates**

The Fulton Virtual School’s policy is to allow students to work at an individualized pace in the course. You are expected to work at your own pace and have the course finished by the last day of the class. You are expected to show the same level of commitment as you would in your traditional school setting.

**Scope and Sequence**

When you log into the Virtual Classroom, you can view the entire course map, which provides a scope and sequence of all topics you will study. Clicking a lesson’s link in the course map leads to a page listing
instructional activities, assignments, and learning objectives specific to that lesson. The units of study are summarized below.

Unit 1: DNA and Protein Synthesis
Unit 2: Natural Selection
Unit 3: Classifying Organisms

Georgia Performance Standards

This course is correlated to the Georgia Performance Standards. If you would like more information on the GPS, please visit: https://www.georgiastandards.org/Georgia-Standards/Pages/Science-Biology.aspx

Fulton Virtual School Academic Integrity Policy

In a virtual learning environment, honesty and integrity are integral traits for academic success. At Fulton Virtual, we believe that all students must show integrity in the completion and submission in all aspects of the academic experience. Therefore, no forms of cheating, assisting others in cheating, and/or plagiarism (passing off the work of others as if it is your own) will be tolerated.

When collaboration is necessary to complete tasks and projects, Fulton Virtual School instructors will provide students with advance notice. Thus, all work is considered an individual assignment unless otherwise noted. The following list of dishonest behaviors has been compiled to assist you. This list is by no means exhaustive, and each infraction of academic dishonesty will be handled the virtual instructor on an individual, case-by-case basis.

*Dishonest behavior includes, but is not limited to:*

1. Plagiarism. Plagiarism can be defined as the inclusion of another’s ideas, words, expressions, or data in writing or presentation without properly acknowledging the source.

2. Unauthorized use off another person’s password/login. Student logins/passwords are confidential information that should not be shared with others.

3. Cheating. Cheating can be defined as the act or attempted act of deception by which a student seeks to misrepresent his submitted work as uniquely his own completed without assistance. Cheating includes copying another student’s work and submitting it as your own.
4. Impersonation. Performing work or taking an examination for another student or allowing someone to do so for you.

5. Falsification and/or misrepresentation of data. This can be defined as the submission of false or contrived data or sources.

6. Computer crimes. This may include damaging computer programs, hacking, constructing viruses, introducing viruses into a system, copying programs, etc.

*Academic dishonesty will result in one or more of the following actions:*

- Loss of grade points
- Removal from the course
- Failure to receive credit for the course
- Loss of eligibility to earn credits through Fulton Virtual Schools

Fulton Virtual School instructors have the authority to require that students perform other tasks or undergo additional assessments in proctored situations. If a Fulton Virtual School instructor suspects that there is a problem with academic integrity, the administrators of both the local school and Fulton Virtual School will be informed. Failure to follow these guidelines may result in removal from your virtual course without further warning.

*All Fulton Virtual Students Must Agree and Adhere to the Following Academic Integrity Guidelines:*

- I understand and will support and will abide by the guidelines set for in the Fulton Virtual School Academic Integrity Policy.

- I will not personally cheat (i.e., use unauthorized materials in completing my assignments and assessments), and I will not help others cheat.

- If I become aware of anyone else’s cheating or use of unauthorized materials (or any other violations of Fulton Virtual School’s Academic Integrity Policy, I have a personal responsibility to report the matter to an instructor or administrator.