

**Pine Ridge High School****Course Syllabus****Biology**

Teachers: Mr. Beecher

**Course Description:**

This course provides integrated laboratory experiences and activities in the fundamental concepts of life. The content will include the scientific method and measurement, laboratory safety, use of lab apparatus, biochemistry, cell biology, genetics, biological changes, classification and taxonomy, including the study of the structure and function of plants and animals. Dissections are a part of this course.

<b>Biology 1 (Regular and Honors Curricula)</b>			
<b>Week</b>	<b>Date</b>	<b>Topic</b>	<b>Unit DIA</b>
1	12 August – 16 August	What is Biology? Science Process/Macromolecules	(SMT 1 – Week 1)
2 – 5	19 August – 13 September	Water, Macromolecules, and Enzymes	<b>DIA 1: Macromolecules</b>
6	17 September – 20 September	Cell Theory and Microscopes	<b>DIA 2: Cells Structure and Function</b>
7	23 September – 27 September	Cell Structure and Function	
8	30 September – 4 October	Cell Membrane and Transport	
9	7 October – 11 October	Cell Cycle	<b>DIA 3: Cell Cycle, Mitosis, Meiosis</b>
<b>End of 1<sup>st</sup> Quarter</b>			
10 – 11	15 October – 25 October	Mitosis, Meiosis	<b>DIA 4: Genetics</b>
12 – 17	28 October – 13 December	Genetics and Biotechnology	
		DNA and Protein Synthesis	
18	16 December – 18 December	<b>Administer SMT 2</b>	<b>SMT 2</b>
<b>End of 2<sup>nd</sup> Quarter – Winter Break</b>			
19	6 January – 10 January	Evidence of Evolution	<b>DIA 5: Evolution</b>
20 – 21	13 January – 24 January	Mechanisms of Change	
22	27 January – 31 January	Taxonomy	
23 – 25	3 February – 21 February	Human Health, Growth, and Development	<b>DIA 6: Humans, Photosynthesis/Respiration and Plants</b>
26	24 February – 28 February	Photosynthesis & Cellular Respiration	
27 – 28	2 March – 12 March	Plants	
<b>End of 3<sup>rd</sup> Quarter – Spring Break</b>			
29	23 March – 27 March	Matter and Energy in an Ecosystem	<b>DIA 7: Ecology</b>
30-31	30 March – 10 April	Interdependence	
32-33	13 April – 24 April	Human Impact	
34 – 37	1 May – 29 May	<b>Biology EOC State Window</b>	
37 – 38	18 May – 30 May	Regular PLC Choice - Real World Applications	or Honors Bridge to Chemistry
<b>End of 4<sup>th</sup> Grading Period – Summer Break</b>			

**Content Standards:**

By the end of the course, you must demonstrate the ability to:

1. Illustrate and outline the individual interaction with living and non-living things.
2. Investigate and explain theories and evidence on how populations change through time.
3. Illustrate knowledge of the organization, structure, and life functions of simple and complex life forms.
4. Investigate and explain the chemical and biochemical principles essential for life functions.
5. Analyze how genetic information encoded in DNA/RNA molecules regulates protein production, cell growth and division, and genetic variation.
6. Plan and safely conduct investigations following the scientific process and evaluate the results.

**Textbooks:**

Biology Miller Levine (bee cover) - \$92

Biology workbook - \$22

Students are expected to bring textbooks to class based upon need of topic and assignment.

**Grading policy:**

- Diagnostic 0%** (pretests, surveys, etc)
- Formatives 40%** (classwork, homework, quizzes, some labs, etc)
- Summatives 60%** (DIAs, tests, projects, lab reports, etc)

Pine Ridge High School will use the VCS grading scale:

Grade	Range	Quality Points	Description
A	90 - 100	4.0	Outstanding Progress/Mastery
B	80 - 89	3.0	Above Average Progress/Mastery
C	70 - 79	2.0	Proficiency
D	60 - 69	1.0	Passing
F	0 - 59	0	Failing and require intervention

Students should expect to spend about twenty to thirty minutes on assignments each night or reviewing notes and vocabulary. Assignments will consist of textbook problems, worksheets, projects, and writing activities. Assignments are expected to be completed by the specified due date for full credit. Students must complete and turn in all formative work prior to the summative.

**Submission and Make-up policy**

Recognizing the importance of education, we encourage you to attend school on a daily basis. Students will make up all work missed due to absences. For each day absent, a student has the equal number of days plus one to make-up any missed work. (Example: 1 day absent = 2 days to make-up work - 2 days absent = 3 days to make-up work). Students who are absent from school on a known published due date must turn in assignments on the day they return to school and may be subject to a grade penalty. Students who are absent from class due to an approved school activity, but on campus during any part of the day, must turn in all work due prior to the end of the school day.

**Homework Policy**

Homework is given as an essential part of the curriculum to reinforce skills and assess student learning.

**Cheating is a Level 2 discipline infraction and may result in a referral. Students who are caught cheating will receive an I on the assessment/assignment and will be required to complete academic intervention before being allowed another attempt at demonstrating proficiency.**

Discipline Policy: The following policy is for minor offenses.

1. Teacher Warning
2. Parent contact via e-mail or phone
3. Teacher Consequence
4. Discipline Referral

**Intervention:**

Students are encouraged to come in for additional help. This is usually best done as soon as the student realizes they have a question or problem. Please do not wait until the day before a test to get help if you can possibly avoid doing so. Teachers are available to assist with tutoring and makeups during **office hours** Monday through Friday.

Per *Volusia County Grading Guidelines*, all students will be provided the opportunity to retake **one** summative per class, per nine weeks. Students will be required to complete activities/assignments within the DIA Online Remediation course provided by the district. A retake summative must be completed before the next scheduled summative assessment. For summative projects that do not meet proficiency, students will have the option to make corrections AND complete an alternative assessment determined by the teacher.

**Classroom expectations:**

1. Follow all Pine Ridge High rules, policies, and procedures as stated in Student Handbook, especially in regard to the PRHS dress code
2. Be prepared for class every day (paper, pencil, notebook, textbook, etc.)
3. Follow all instructions promptly and respectfully.
4. NO use of electronic devices (IPODS, cell phones, Air Pods etc.) during class unless directed by teacher.
5. Be seated, quiet, and attentive at all times unless given permission to do otherwise.

**Materials Required**

- Blue or black ink pens
- #2 pencils
- 3-4 glue sticks or bottle of Elmer's glue
- 2 spiral notebooks (1 for each semester) this will serve as the ISN (interactive student notebook) Spiral needs to have a **plastic front cover and at least 100 sheets and min 8.5 by 11 in size (NO 3 or 5 subject spirals)**

I am looking forward to working with you this year. If you or your parents have any concerns or questions, please contact me at Nicholas Beecher [nabeeche@volusia.k12.fl.us](mailto:nabeeche@volusia.k12.fl.us). Feel free to schedule a parent conference through our school counseling department.

*Student success is not the sole responsibility of the teacher; it can only be achieved by the combined efforts of the parent, student, and teacher. Let us be sure to keep the lines of communication open so together we can make this a successful venture. I look forward to our time together.*

**Please complete, sign, and return the following section to school.**

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**Internet Permission:** Please check one.

\_\_\_ My student has my permission to use the Internet for school assignments.

\_\_\_ I prefer that my student use alternative reference sources and not use the Internet.

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**Movie Permission:** Please check one.

My child may view PG and PG-13 curriculum related movies/videos YES \_\_\_ NO \_\_\_

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**By signing this document, you are acknowledging that you have fully read and understand the requirements, expectations, and content of the course for Biology, as described in the above syllabus. All information on this form must be filled out completely.**

Print Student Name: \_\_\_\_\_

Student Signature: \_\_\_\_\_

Parent (Legal Guardian) Signature: \_\_\_\_\_

Phone number where parent can be reached: \_\_\_\_\_

**Email of Parent or Legal Guardian:** \_\_\_\_\_

Parent comment \_\_\_\_\_