

# Biology Syllabus and Course of Study

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Prep: Period 1 and 8. Lunch: Period 5

## Course Description:

Hello and welcome to Earth Science! This course is designed to give students the skills needed to be successful in the field of science. Students will learn the processes that scientists use to investigate natural phenomenon as well as the major findings in Earth Science in the past centuries. Students will work in a number of different learning situations (individually, in pairs, or as a group) to help further their understanding of Earth Science.

## Course Goals:

1. Students will understand key concepts, principles, and theories of Biology as defined by the California Content Standards for Science. A complete list of these standards may be found at:  
<http://www.cde.ca.gov/be/st/ss/documents/sciencestd.pdf>
2. Students will practice scientific inquiry through active learning.
3. Students will cultivate a love of science and the beauty and complexity of our planet.
4. Students will be able to work effectively in groups as well as work responsibly as individuals inside the classroom.

## Course Focus:

The course focus in Biology this year will be on the following topics.



Cell biology  
Genetics  
Physiology  
Ecology  
Natural selection and Evolution  
Investigation and experimentation



## Course Assignments:

1. All students will be expected to complete an opener activity each day.
2. Students will be offered 3 to 4 in-class assignments per week. Each assignment will be weighted into an average credit total of 50 pts, or 0.5 credits per week. In-class assignments may include Cornell Notes, Vocabulary, Flipbooks, Group Discussions, Games, Presentations, Videos and Tests.
3. Students are expected to complete in class writing assignments.
4. Students are expected to complete all vocabulary assignments.
5. Students are expected to complete all quizzes and tests.
6. Students that complete all of the regular class assignments will be given an opportunity to earn extra credit and a chance to complete their credits faster. To be eligible, all classwork must be completed with at least 70% accuracy.

### **Rules and Expectations:**

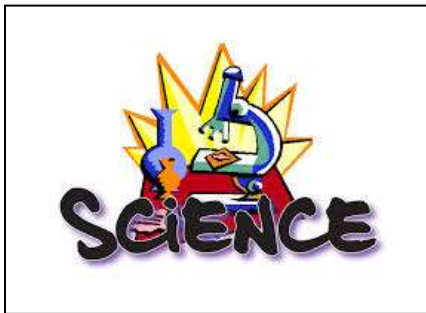
1. Respect everyone and everything. Treat others well and expect the same from them.
2. You may drink water in class, but no food and/or sugar containing drinks in class.
- 3. No phones or electronic devices may be used during class, or they may be confiscated during class and returned at the end of class for first offense. For any subsequent offense, the device will be available in the office for a parent or guardian to pick up after school in Principal's office.**
4. Stay on task all period.
5. Keep your work appropriate, complete and turned in on time.
6. Be on time to your class. Being tardy disrupts the class, so if you are going to have a problem with being able to make it to class on time, please talk to me individually.

### **Credits:**

Everyone at Bowman is trying to earn credits. You will have an opportunity to earn approximately 0.5 credits every week if you complete all of the work that is given each week, participate in class discussions, and come to class the vast majority of time. (Students that have a high attendance learn more, and therefore they usually get better grades.) If the work is not completed, then credit will not be given (NO WORK, NO CREDIT.)

Students must complete warm-up questions and the assignment for each day to get credit. For those students who want to finish the course quickly, I will offer extra credit work. **HOWEVER EXTRA CREDIT WILL NOT BE ACCEPTED IF THE NORMAL CLASS WORK IS NOT FINISHED FIRST.**

**Schoolwide Learning Outcomes (SLO's):** In the course of learning the class content, students will be involved in activities designed to grow and also achieve the following schoolwide learning outcomes:



- 1. Achieve Academic Proficiency in Reading, Writing and Math**
- 2. Communicate Effectively**
- 3. Demonstrate growth in Character Development**
- 4. Explore Future Opportunities**

# Biology A-Course of Study

Chapter	Warm-ups/class activities	Cornell Notes	Vocabulary	Chapter Assessment
<b>Credit 1</b>				
1. The nature of Life (1.1, 1.2, 1.3, 1.4)	/10	/15	/15	/10
7. Cell Structure and Function (7.1, 7.2, 7.3, 7.4)	/10	/15	/15	/10
<b>Credit 2</b>				
8. Photosynthesis (8.1, 8.2)	/5	/5	/5	/5
9. Cellular Respiration (9.1, 9.2)	/5	/10	/10	/5
10. Cell Growth and Division (10.1, 10.2, 10.3)	/10	/15	/15	/10
<b>Credit 3</b>				
11. Introduction to Genetics. (11.1, 11.2, 11.3, 11.4, 11.5)	/20	/30	/30	/20
<b>Credit 4</b>				
12. DNA and RNA (12.1, 12.2, 12.3, 12.4)	/20	/30	/30	/20
<b>Credit 5</b>				
13. Genetic Engineering (13.1, 13.2, 13.3, 13.4)	/20	/30	/30	/20

## Biology B- Course of Study

Chapter	Warm-ups/class activities	Cornell Notes	Vocabulary	Chapter Assessment
<b>Credit 6</b>				
15. Darwin's Theory of Evolution (15.1, 15.2, 15.3)	/10	/15	/15	/10
16. Evolution of Populations (16.1, 16.2, 16.3)	/10	/15	/15	/10
<b>Credit 7</b>				
17. The History of Life (17.1, 17.2, 17.3, 17.4)	/10	/15	/15	/10
3. The Biosphere (3.1, 3.2, 3.3)	/10	/15	/15	/10
<b>Credit 8</b>				
4. Introduction to Genetics. (4.1, 4.2, 4.3, 4.4)	/10	/15	/15	/10
5. Populations (5.1, 5.2, 5.3)	/10	/15	/15	/10
<b>Credit 9</b>				
35. Nervous System (35.1, 35.2, 35.3, 35.4, 35.5)	/20	/30	/30	/20
<b>Credit 10</b>				
40. The immune system (40.1, 40.2, 40.3)	/20	/30	/30	/20