

Biology Syllabus

Firm Foundation Schoolhouse
Old Goshenhoppen Reformed Church
Wednesdays @ 12:45 – 2:15pm
Teacher: Stephanie Park
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Course description:

*In the beginning, God created the heavens and the earth. Gen 1:1
All things were made through him, and without him was not any thing made that was made. John 1:3*

This course seeks to study and discover the beauty and wonder of God's created world. We will study *microbiology* including topics such as characteristics of life, biomolecules, cells, photosynthesis, cellular respiration, DNA, etc. Then, we will shift our attention to *macrobiology* including topics of evolution and creation, classifications of living things, and a study of the kingdoms of living things. Students will participate in labs throughout the year to further their understanding of these topics.

Text:

Science Shepherd Biology, Second or Third Edition, by Dr. Scott Hardin

Additional Supplies:

Colored pencils
Index cards
Notebook
Binder
Timeline Notebook (optional) – for “people of science”
Email access for class updates and further information.

How to Study Biology:

1. Read each chapter, **BEFORE** coming to class, taking notes as you go.
2. Biology is a very ‘visual’ science. So, fill your notebook with sketches, labeled diagrams etc. The more you can visualize the content, the better you will understand it.
3. Read all lab information, when applicable, prior to coming to class.
4. Make flashcards of vocabulary, and familiarize yourself with common prefixes and suffixes (list will be provided by the teacher)
5. Review and prepare for quizzes and exams. Plenty of review time will be given in class, but you will also need to prepare at home during the week.
6. Reading and participation in discussion is highly encouraged. This is a “**classically inspired**” course. This means that I expect the students to come prepared, having read the assigned chapters, in order to participate in discussions.

Grading:

I will grade quizzes and exams on a simple 0-100% scale. Lab assignments will not be graded, but will be marked as either completed or not completed. Additional projects will be evaluated and graded. I will give feedback on the student's preparedness, participation in class and diligence in coursework. This will give the parent the opportunity to assign the most appropriate final grade for their student.

Anticipated Course Schedule

Labs will be added to this schedule prior to the start of the semester.

Week	Chapters in Textbook Please read prior to coming to class
1	1: Introduction
2	4: Cell & Cell Membrane
3	5: Cell Interior & Function
4	5: Cell Interior & Function
5	6: Metabolism Overview
6	7: Photosynthesis
7	8: Cellular Respiration
8	9: DNA, RNA & Proteins
9	10: Cell Reproduction: Mitosis
10	11: Organism Reproduction
11	12: Genes & Heredity
12	13: Inheritance Patterns
13	14: Genetic Variations & 15: Human Genetics
14	Review
15	Midterm Exam
	Semester Break
16	17-19: Evolution & Creation
17	17-19: Evolution & Creation
18	17-19: Evolution & Creation
19	20: Biological Classification
20	21: Bacteria & Archaea
21	22: Protista
22	23: Fungi
23	24 – 25: Plants
24	24 – 25: Plants
25	26: Animalia I
26	27: Animalia II
27	28: Animalia III
28	29: Animalia IV
29	Review
30	Final Exam