



Biology 1 and 2 Syllabus

Course Description:

Lecture and Lab course **required for graduation** that introduces Biology with an emphasis on the world around us. The purpose is to gain an understanding and appreciation of life science, as well as to gain skills in performing experiments and investigations in the biological sciences. Students of Biology will investigate, inquire, and synthesize phenomena through asking questions, defining problems, analyzing, predicting, constructing explanations, etc. They will study diverse concepts and make application to real world ideas with the intent to prepare you for higher education and/or the future job market.

Attendance:

- Students are required to be in school every day. Students are responsible for communicating with their teachers to make up for missed learning.
- Students need to complete a missed assessment. Incomplete assessments result in a lack of evidence of a student's understanding and may cause a student to fail.

Essential Skills:

Standard: Investigating Practices
Target 1: I can ask scientific questions using all success criteria in familiar contexts
Target 3: I can plan a controlled investigation using all success criteria in familiar contexts
Standard: Sensemaking Practices
Target 2: I can model a scenario using all success criteria in familiar contexts
Target 4a: I can create a data representation using all essential components in familiar contexts Target 4b: I can interpret data using all essential components in familiar contexts
Target 6: I can construct an explanation for a scientific phenomenon using all success criteria in familiar contexts
Standard: Critiquing Practices
Target 7: Engaging in Argumentation
Target 8: Obtaining, Communicating, & Evaluating Information

Grading:

Learning (Practice):

Includes instructional activities in and outside of class and are not used in grade determination.

Skyward Assessments (Grades):

Assessments may include the following: quizzes, (announced and unannounced), projects, models, short tests to show student understanding, unit tests (topic), standard unit tests (one entire standard), labs, and semester final exams, etc.

Semester Grade Overview	
Semester	95%
Semester Exam	5%

Final Grade Overview	
Semester 1	0.5 credit
Semester 2	0.5 credit

Grading Scale

A = 90% - 100%
 B = 80% - 89%
 C = 70% - 79%
 D = 60% - 69%
 F = 0% - 59%

Central High School Courses:

- Will determine grades based on student performance and growth.
- Will not include practice and behavior in grade determination.
- Will give all students regardless of absence an opportunity to demonstrate learning.
- Will not include extra credit.

Instructional Resources:

Textbook: Biology by Miller and Levine

Web Sources: hhmi, Amoeba Sisters, Crash Course: Biology, Bozeman, Kahoot!, Blooket, Canvas, Google Classroom

Course Calendar: 2022-2023

August/September

28	29	30	31	1	2	3
4		6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

October

						1
2	3	4	5	6	7	8
9		11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

November

		1	2	3	4	5
6	7	8	9	10		12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

December

				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18		20	21	22	23	24
25	26	27				31

January

1		3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

February

			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19		21	22	23	24	25
26	27	28				

March

			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

April

						1
2						8
9		11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

May/June

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Course Units/Chapters			
Unit 1 Experimental Design and Safety	Unit 2 Chapters 1 & 2 Intro to Biology/Chemistry of life	Unit 3 Chapter 7 Cell Structure & Function	Unit 4 Chapter 8 & 9(9) Photosynthesis & Cellular Respiration
Unit 5 Chapter 12 & 13(16) DNA & Protein Synthesis	Unit 6 Chapter 10(15) Cell Cycles	Unit 7 Chapter 11 & 15 Genetics	Unit 8 Chapter 16,17 & 18(30) Evolution & Classification
Unit 9 Chapter 3, 4 & 5(26) Ecology	Workday/Professional Development (PLC)	Semester Exams	No School

Keep in mind that these dates are subject to change.