



Biology: Part 1

Course number: SC041_23_1

Credits: .5 credit

Prerequisites: None

INSTRUCTIONAL TEAM

Teacher: Ms. Webb

Email: nwebb@jmhs.com

Our Academic Advisors are also available to help you when you need it. They are trained to provide answers to your questions about the course or program.

Phone: 1-800-224-7234

Hours: 8:30AM – 8:30PM (Eastern Standard Time), Monday-Friday

MAIL

James Madison High School

6625 The Corners Parkway, Suite 500

Norcross, GA 30092

Course Materials

All of your course materials are included in this course experience. You'll find it easiest to study this course by following these steps:

- Look over the syllabus, paying close attention to the course and lesson objectives.
- Read each objective. Pay close attention to main concepts and definitions.
- Complete each assignment as you come to it.
- When you've completed each assignment, look over the lesson review.
- When you're confident you understand the material, complete the lesson exam.

COURSE DESCRIPTION

This course begins with the overall process of science, then dives right into the main characteristics shared by every living thing and an introduction to the big ideas uniting the study of biology. You'll study the chemistry of molecules important to life and use that foundation to study cells, organisms, and the interdependence of living things and their environments. You'll relate cell structures and parts to life-sustaining functions, such as respiration and photosynthesis. Finally, you'll study DNA, genetics, and inheritance.



LEARNING OBJECTIVES

After completing Biology: Part 1, students will be able to:

- Describe the characteristics, chemistry, and ecology of living things
- Analyze cells and their processes for obtaining energy and reproducing
- Explain how traits are passed on from one generation to the next

LESSONS	TOPICS
Lesson 1:	Nature of Science, the Chemistry of Life, and Ecology
Lesson 2:	The Cell and its Processes
Lesson 3:	Genetics and Inheritance

GRADING

The following point totals correspond to the following grades:

POINTS	GRADE
100-90	A
89-80	B
79-70	C
65-69	D
Below 65	F

James Madison High School allows 2 attempts on exams. If a student is not satisfied with his/her score on the 1st attempt, an exam may be resubmitted. The 2nd attempt is not required as long as the final course average is above 65%. The higher of the 2 attempts will be the score that counts towards the final average.

Exams are timed and once you begin an exam, the timer runs continuously, even if you leave the course. Refer to the exam instructions for the time limit (in most cases 3 hours), but the time limit cannot be spread over multiple days.



GRADE WEIGHT

TOPIC	ACTIVITY	PERCENTAGE
Lesson 1: Nature of Science, the Chemistry of Life, and Ecology	Quiz	33.3%
Lesson 2: The Cell and its Processes	Quiz	33.3%
Lesson 3: Genetics and Inheritance	Quiz	33.4%

ACADEMIC AND COURSE POLICIES

Please see the Academic Policies section in the [James Madison High School Catalog](#) for information on Course policies, including the Exam/Assignment Retake Policy, Grading Policy, Academic Honesty Policy, and Student Conduct Policy.



Biology: Part 2

Course number: SC042_23_1

Credits: .5 credit

Prerequisites: None

INSTRUCTIONAL TEAM

Teacher: Ms. Webb

Email: nwebb@jmhs.com

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James Madison High School

6625 The Corners Parkway, Suite 500

Norcross, GA 30092

Course Materials

All of your course materials are included in this course experience. You'll find it easiest to study this course by following these steps:

- Look over the syllabus, paying close attention to the course and lesson objectives.
- Read each objective. Pay close attention to main concepts and definitions.
- Complete each assignment as you come to it.
- When you've completed each assignment, look over the lesson review.
- When you're confident you understand the material, complete the lesson exam.

COURSE DESCRIPTION

In this course, you'll study evolution and the evidence behind it. Charles Darwin pieced together observations and ideas to form the theory of evolution and how it shaped the diversity of life all around you. You'll study life forms from simple bacteria to complex plants and animals. You'll notice that adaptations accompany each group of living things to increase their abilities to thrive within their environments.



LEARNING OBJECTIVES

After completing Biology: Part 2, students will be able to:

- Explain how different species of living things have evolved and are classified
- Identify the characteristics and behavior of plants and animals
- Diagram the anatomy and physiology of the human body

LESSONS	TOPICS
Lesson 4:	History and Diversity of Life
Lesson 5:	Plant and Animal Systems and Behavior
Lesson 6:	The Human Body

GRADING

The following point totals correspond to the following grades:

POINTS	GRADE
100-90	A
89-80	B
79-70	C
65-69	D
Below 65	F

James Madison High School allows 2 attempts on exams. If a student is not satisfied with his/her score on the 1st attempt, an exam may be resubmitted. The 2nd attempt is not required as long as the final course average is above 65%. The higher of the 2 attempts will be the score that counts towards the final average.

Exams are timed and once you begin an exam, the timer runs continuously, even if you leave the course. Refer to the exam instructions for the time limit (in most cases 3 hours), but the time limit cannot be spread over multiple days.



GRADE WEIGHT

TOPIC	ACTIVITY	PERCENTAGE
Lab Assignment: Natural Selection	Graded Project	25%
Lesson 4: History and Diversity of Life	Quiz	25%
Lesson 5: Plant and Animal Systems, and Behavior	Quiz	25%
Lesson 6: The Human Body	Quiz	25%

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