

# BIOLOGY

## Contact Information:

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## Required Textbook:

\*Miller and Levine Biology by Ken Miller and Joe Levine  
(2017) or (2010)

ISBN: 0133669610

9780133669619

9781323205853

1323205853

\*3 ring binder for worksheets and definitions

\*Workbook pages and Lab worksheets will be provided

## Course Description:

Welcome to biology...the study of life. This is the one subject that is truly relevant to everyone. Biology 1 typically goes into great detail about the cellular level, concentrating on structure and function. However we will also learn about living things and their relationship with the environment. Topics will include the history and nature of science, use of microscopes, cellular structure, biochemistry, reproduction, classification, ecology, and plant science. I think everyone's favorites tend to be genetics and anatomy and physiology.

**COURSE HOURS: Friday 1.5hours**

There will be a combination of lecture and lab each week.

# Dates and Topics

|           |    |  |
|-----------|----|--|
| September | 17 | Introduction/Class overview with expectations/<br>Homework examples/Test your knowledge game |
|           | 24 | Chapter 1:The Science of Biology   |
| October   | 1  | Chapter 2:The Chemistry of Life  |
|           | 8  | Chapter 3: The Biosphere   |
|           | 15 | Chapter 4:Ecosystems and Communities   |
|           | 22 | Chapter 5: Populations   |
|           | 29 | Chapter 6: Humans in the Biosphere   |
| November  | 5  | Chapter 7: Cell Structure and Function   |
|           | 12 | Chapter 8: Photosynthesis  |
|           | 19 | Chapter 9: Cellular Respiration and Fermentation   |
|           | 26 | NO CLASS   |
| December  | 3  | Chapter 10: Cell Growth and Division   |
|           | 10 | Chapter 11: Introduction to Genetics   |
|           | 17 | NO CLASS   |
|           | 24 | NO CLASS   |
|           | 31 | NO CLASS   |
| January   | 7  | Chapter 12: DNA  |
|           | 14 | Chapter 13: RNA and Protein Synthesis  |
|           | 21 | Chapter 14: Human Heredity   |
|           | 28 | Chapter 15: Genetic Engineering  |
| February  | 4  | Chapter 16&17: Darwin's Theory of Evolution/Evolution<br>And Populations                     |
|           | 11 | Chapter 18: Classification   |
|           | 18 | Chapter 19: History of Life  |
|           | 25 | Chapter 20&21: Viruses and Prokaryotes/Protists and<br>Fungi                                 |
| March     | 4  | Chapter 22: Introduction to Plants   |
|           | 11 | Chapter 23&24: Plant Structure and Function/Plant<br>Reproduction and Response               |
|           | 18 | Chapter 25: Introduction to Animals  |
|           | 25 | Chapter 26: Animal Evolution and Diversity   |
| April     | 1  | Chapter 27&28: Animal Systems I/Animal Systems 2   |

|       |    |   |
|-------|----|---|
| April | 8  | Chapter 29: Animal Behavior                               |
|       | 15 | NO CLASS  |
|       | 22 | Chapter 30: Digestive and Excretory System                |
|       | 29 | Chapter 31: Nervous System                                |
| May   | 6  | Chapter 32: Skeletal, Muscular, and Integumentary Systems |
|       | 13 | Chapter 33: Circulatory and Respiratory System            |
|       | 20 | Chapter 34: Endocrine and Reproductive Systems            |
|       | 27 | Chapter 35: Immune System and Disease                     |

## Evaluation:

- \* Students will take weekly quizzes.
- \* Students will take part in weekly labs \*\*\*no labs when we are scheduled to cover 2 chapters or for the first 2 classes (so that we can get into a routine with homework, classwork, quizzes, etc.)
- \* Students will be expected to do weekly definitions. The definitions will be done at home and checked in class.