



Course Descriptors 2019 - 2020 Semester 1

Biology
Mathayom 5



EIP Mathayom Course Description Second Year

Subject: Core Biology
Grade: Mathayom 5
Periods: 4

Department: Science
Course Code: SC32243
Credit: 2

Course Material:

Modern Biology, *Holt, Rinehart and Winston*

Course Description:

The second year of Biology will focus on anatomy and physiology, specifically paying attention to human anatomy, physiology, and its systems.

The course will start at the cellular level where students will study tissue types and functions. The students will then explore the systems which provide the framework for the human body such as the Skeletal and Muscular systems. This semester will lead the students through the Circulatory, Integumentary, Respiratory, and Immune systems as well.

Course Objectives:

1. Describe the organization of animal tissues and organ systems
2. Demonstrate a basic understanding of the following topics in animals and humans: structural support and movement, circulation, immunity, respiration.
3. Learn how to link different organ systems through their structures and functions.
4. Think critically about the processes occurring inside of the human body.
5. Gain hands-on experience dissecting animal tissues and relating it to the human body systems.



EIP Mathayom Course Outline
First Semester

Unit 10 – Human Biology

Chapter 45: Skeletal, Muscular, and Integumentary Systems

- Human Body Plan p 907
- Skeletal System p 911
- Muscular System p 917
- Integumentary System p 924

Chapter 46: Circulatory and Respiratory Systems

- Circulatory System p 933
- Respiratory System p 946

Chapter 47: The Body's Defense System

- Non Specific Defenses p 957
- The immune System p 961



EIP Mathayom Evaluation and Grading
First Semester

Breakdown of Grades

| Criteria | 1 st quarter | 2 nd quarter | Total |
|-------------------|-------------------------|-------------------------|-------|
| Homework | 5% | 5% | 10% |
| Participation | 5% | 5% | 10% |
| Behavior | 5% | 5% | 10% |
| Labs/Group Work | 5% | 5% | 10% |
| Tests/Quizzes | 20% | 20% | 40% |
| Final Examination | | 20% | 20% |
| Total | 40% | 60% | 100% |