



Course Descriptors
2019 - 2020
Semester 2

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.

In the second semester, the course will begin with a research project dedicated to the study of HIV/AIDS; a modern day virus that is constantly being investigated by emerging medicine. This semester will lead the students through the organ systems that are less visible, but which play a major role in the human body: Digestive, Excretory, Nervous, Endocrine, and Reproductive Systems.

Course Objectives:

1. Demonstrate a basic understanding of the following topics in animals and humans: neural control, sensory perception, endocrine control, digestion and human nutrition, the internal environment, reproduction and development.
2. Learn how to link different organ systems through their structures and functions.
3. Think critically about the processes occurring inside of the human body.
4. Gain hands-on experience dissecting animal tissues and relating it to the human body systems.



EIP Mathayom Course Outline
Second Semester

Chapter 47: The Body's Defense System

- Non Specific Defenses p 957
- The immune System p 961
- HIV/AIDS p 970

Chapter 46: Circulatory and Respiratory Systems

- Respiratory System p 946

Chapter 49: Nervous System and Sense Organs

- Neurons and Nerve Impulses p 1005
- Structure of the Nervous system p 1010
- Sensory Systems p 1016
- Drugs of the Nervous system p 1021



EIP Mathayom Evaluation and Grading
Second Semester

Breakdown of Grades

Criteria	3 rd quarter	4 th 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%