



Course Descriptors  
2020 - 2021  
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 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 <sup>rd</sup> quarter	4 <sup>th</sup> 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%