



Course Descriptors  
2020 - 2021  
Semester 2

Biology  
Mathayom 6



## EIP Mathayom Course Description Third Year

Subject: Core Biology  
Grade: Mathayom 6  
Periods: 4

Department: Science  
Course Code: SC33245  
Credit: 2

### Course Material:

*Modern Biology, Holt, Rinehart and Winston*  
*Essentials of Anatomy and Physiology, F. A. Davis Company*

### Course Description:

The third year of the Core Biology Course will fill in any gaps and create a whole understanding of Life Sciences. This course will elaborate and build relationships between everything that was studied during the first two years of Core Biology.

This biology course is an elective optional course for students wishing to pursue science-based careers after graduation. Sections of the previous years will also be covered in significantly more detail than previously. This course will prepare students for lecture-style university courses and gain a more in-depth knowledge of Biology. This second semester will be more research/theory based and allow the students to think like scientists in order to explore the implications of the human body and its connection to medicine.

### Course Objectives:

1. Explore the history of life on Earth.
2. Identify the principles of evolution and how that has affected biodiversity.
3. Describe the essentials of microbiology and human diseases.



EIP Mathayom Course Outline  
Second Semester

**Unit 4 – Evolution**

*Chapter 14 – History of Life*

- Biogenesis p 279
- Earth's History p 282
- The First Life-Forms p 287

*Chapter 15 – Theory of Evolution*

- History of Evolutionary Thought p 297
- Evidence of Evolution p 302
- Evolution in Action p 308

**Unit N/A – Microbiology and Human Disease**

*Essentials of Anatomy and Physiology - An Introduction to Microbiology and Human Disease*

- Classification of microorganisms
- Normal flora
- Infectious disease
- Epidemiology
- Methods of control of microbes
- The pathogens



EIP Mathayom Evaluation and Grading  
Second Semester

**Breakdown of Grades**

Criteria	1 <sup>st</sup> quarter	2 <sup>nd</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%