

Course Descriptors

2019 - 2020

Semester 2

Biology

Mathayom 6

EIP Mathayom Course Description

Second Year

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| --- | --- | --- |
| Subject: Core Biology |  | Department: Science |
| Grade: Mathayom 6 |  | Course Code: SC33245 |
| Periods: 4 |  | 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

1. 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 1st quarter 2nd 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%