

Biology 1st Year Syllabus

School year 2007 - 2008

Teachers:

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ESBIN Mission

Contribute to a whole formation of young teenagers committed to their surroundings, with the character needed to face challenge and reach goals; and to prepare them to a high academic level which allows to successfully continuing their student lives.



BIBLIOGRAPHY

Hernandez H. **The Biology Adventure.**
ESBIN-TEC DE MONTERREY, 2007.

Other materials needed for this subject are: Notebook, pencils, color pencils, pencil sharpener, eraser, pens, correction fluid, folders and blank paper sheets (size letter).

CONTENTS

PERIOD 1•BIODIVERSITY

Characteristics and classification of living beings, their abundance and distribution; importance of ecosystems; the sustainable development; the native knowledge; evolution and Darwin's findings, adaptation and natural selection; science and technology, discovering of the microscopic world and cells.

PERIOD 2•NUTRITION

Nutrition and the functions of the human body; balanced, hygienic and complete diets; Mexico's alimentary and cultural diversity; preventing nutrition-related diseases; heterotrophic and autotrophic organisms; photosynthesis as an energy transforming phenomenon; predator-prey relationship; technology for food production and consuming.

PERIOD 3•RESPIRATION

Respiration and nutrition; preventing respiratory diseases, smoking risks; respiratory structures; aerobic and anaerobic respiration, respiration processes and photosynthesis; atmospheric pollution, respiratory disease treatment.

PERIOD 4•REPRODUCTION

Potentials of human sexuality, sexual and reproductive health; sexual and asexual reproduction; reproductive adaptations; mitosis and meiosis; phenotype, genotype, chromosomes and genes; genetical manipulation methods.

PERIOD 5•HEALTH

Accident prevention and health preservation culture; taking advantage of your biodiversity knowledge; biology, technology and society.

CLASSROOM RULES

Behave in a correct and respectful manner. Work quietly. Do not disturb people who are working. When your teacher is talking, be quiet and listen carefully. Raise your hand whenever you need to be heard and wait to be called by your name before speaking. Treat your classmates and teacher with kindness in your words and actions. Keep your classroom clean at all times. Always bring all needed materials. Do not take food, candy or soft drinks into the classroom. Carefully follow all of the above rules; if you fail to do so, your discipline score will be affected. Cheating and plagiarism is not allowed: both the cheater and the facilitator will have a score of 1 (one) assigned to the corresponding activity or exam. Remember: This class has an ENGLISH ONLY policy!

ACTIVITIES

PARTICIPATION: The teacher will evaluate your interest in the subject: when you ask questions based on doubts or when you request deeper knowledge; when you answer a teacher's question; and when you give your own opinion on answers or comments made by your classmates.
HOMEWORK: Your biology book will be evaluated by the end of each period.
LABORATORY: There will be between 2 and 6 laboratory practices each period. You will need a white lab coat for this activity.
SPECIAL ACTIVITY: 5 drawings will be required in order to reinforce your

knowledge. This activity will be evaluated by each period's end.
QUIZZES: You will answer 2 to 3 quizzes within a period. Keep up to date your biology lessons and you will easily succeed.
EXAM: This is the main evaluation, scheduled for the end of each period.

EVALUATION

For a particular period:
Participation: 10%
Homework: 10%
Laboratory: 10%
Special activity: 10%
Quizzes: 10%
Exam: 50%

ABSENCES

The limit for unexcused absences in each period is SEVEN. Exceeding this number of absences will eliminate your right to answer the exam for the corresponding period. Be careful!

CONTACT

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Digital Reserve (two addresses are available):

<http://www.chi.itesm.mx/~esbin/profesores/rdigital/primero.html>

<http://www.cruciforme.org/esbin>

REMEMBER

If you have any doubts related to this syllabus, ask your teacher. Your teacher can be your best friend whenever you need him: never hesitate to ask for his help for he will always pay close attention to what you have to say. If you need assessments from your teacher, please ask him for his availability.