

K - 12School

SCIENCE AND SCIENCE LABORATORY

Lincoln-Marti Science Curriculum helps all the students succeed in Science; making science easier to learn.

The objectives of Science are:

Life Science, Physical Science, Earth Science, and the Human Body (Kindergarten-6th grade)

Life Science (7th grade): It involves the study of living things, everywhere, even in the dark depths of the sea, which includes the cell structure and classification of bacteria, protists, plants, fungus and animals.

Earth Science & Earth Space (8th grade): It covers technology, atmospheric and climate studies, biospheres, terrestrial physics, and hydrosphere studies.

General Science (9th grade): It covers General Science concepts, based on Life Science, Earth Science, Physical Science and the Human Body. Students will develop an understanding between form and their function in the human body. They will be exposed to both the anatomy and physiology of the major body systems with an emphasis on how the systems work and how they are interrelated and besides learning basic anatomical vocabulary. Students themselves will develop an understanding of the relationship that exists between the form of the human body and how the body functions.

Biology (10th grade): Biology, the science of life. It involves Cellular biology, Molecular biology, and Marine biology. This course is a laboratory-based exploration of biological concepts. Students will learn basic concepts, knowledge and vocabulary fundamental to biology. The study of biology will include laboratory, activities, demonstrations, large and small group discussions. Topics will include the scientific method, cell function and structure, energy transfer, genetics, interrelationship and diversity of organisms. Students will develop their skills of observation, thinking, organizing and problem-solving.



Pictured Above: Students using the equipment in the Science Laboratory.

Chemistry (11th grade): Involves the study of the physical characteristics of materials and the mechanisms of their reactions. Good math skills will be assumed, and students will be expected to take responsibility for reading and problem-solving outside the class. In class the student will learn to take lecture notes in preparation for the college experience, as well as performing experiments and demonstrations. Lab work will be employed to expose the student to classical and current chemical practices. The student will be expected to read, solve problems, design and conduct experiments and perform demonstrations for other students.

Physics (12th grade): It covers the major science components, dealing with the fundamental constituents of the universe and the forces they exert; the nature of the basics, such as, motion forces, energy, matter, heat, sound, light and the composition of atoms. Part of the course will focus on scientific principles and methods. From there, students will develop foundational concepts in physics. These, in turn, will be used to develop the concept of energy, which will then serve as a unifying theme for the study of important concepts of biology, chemistry and earth science. Students will develop and practice skills of observation, logic, inductive reasoning, data interpretation, problem-solving, technical reading and technical writing, among others.