

## Environmental Science Course Descriptions

### BIOL 124: Environmental Science/Lab (4)

Prerequisite: None

This course is a study of basic interrelationships of organisms and their environment. A special emphasis is the effects of man's technology on the environment.

### BIOL 150: General Biology/Lab I (4)

Prerequisite: None

This course is an introductory study of the scientific method, chemical and physical organization of living matter, how living things obtain and use energy, the basic structure and function of cells, heredity, and other basic concepts.

### BIOL 151: General Biology/Lab II (4)

Prerequisite: None

This course is an introductory study of classification, bio-diversity, physiology, origins of life, and ecology.

### BIOL 250: General Ecology/Lab (4)

Prerequisite: BIOL 150 General Biology or instructor approval

This course is a study of the relationships of living organisms to their biotic and abiotic environments. Field trips will be included as part of this instruction.

### CHEM 121: General Chemistry/Lab I (4)

Prerequisite: One year of high school chemistry (or some college chemistry) and two years of high school algebra (or one year of college algebra).

This course is the study of matter, measurement, atoms, ions, molecules, reactions, chemical calculations, thermo chemistry, bonding, molecular geometry, periodicity, and gases.

### CHEM 122: General Chemistry/Lab II (4)

Prerequisite: CHEM 121 General Chemistry/Lab I

This course is the study of intermolecular forces, liquids, solids, kinetics, equilibria, acids, and bases, solution chemistry, precipitation, thermodynamics, and electrochemistry.

### GEOL 105: Physical Geology/Lab (4)

Prerequisite: None

This course is a study of the Earth as a physical body, its structure, composition, and the geologic processes acting upon and within the earth. Laboratory involves the study of rocks and minerals and

topographic maps. Students will apply global information system (GIS) and global positioning system (GPS) strategies to studies. Field trips will be included as part of the instruction.

MATH 111: College Algebra I (3)

Prerequisite: Placement based on TMCC Math Placement Test or MATH 102 Intermediate Algebra

In this course the student will cover graphs and technology, equations, inequalities, functions and their graphs, polynomials and rational functions.

MATH 112: College Algebra II (3)

Prerequisite: Prerequisite: MATH 111 College Algebra I

In this course the student will cover exponential and logarithmic functions, systems of equations and equalities, discrete algebra and analytic geometry.