Course Name: Principles of the Human Body

Course Number: BIO E*110

Credits: 3

Catalog description: This course is a non-majors course designed to introduce students to basic principles required to support human life. The cellular nature of life and organization and function of organs and organ systems is emphasized. This course cannot be used as the prerequisite for BIO*E211, BIO*E235, or BIO*E260.

Prerequisite, Corequisite, or Parallel: Eligibility for or completion of ENG*E101 or ENG*E101W

General Education Competencies Satisfied:

HCC General Education Requirement Designated Competency Attribute Code(s):

XX SCKX	**Scientific Knowledge & Understanding**

Course objectives:

General Education Goals and Outcomes:

XX Scientific Knowledge & Understanding: Students will gain a broad base of scientific knowledge and methodologies in the natural sciences. This will enable them to develop scientific literacy, the knowledge and understanding of scientific concepts and processes essential for personal decision making and understanding scientific issues.

Student Learning Outcomes:

1. Demonstrate knowledge of basic chemical and biological methodologies and principles.
2. Explain the structure and function of various tissue types and organ systems within the human body.
3. Recognize and apply basic principles of fundamental and modern genetics to patterns of heredity.
4. Evaluate and articulate the quality of scientific information presented in a recent publication.
5. Collect and analyze genetic data to address modern genetics and patterns of heredity.

Course Content:

Topics will include:

Hierarchy of Life
Types of Tissues
Chemistry of Life
Cell Structure and Function
Nutrition
Digestion
Enzymes
Cellular Respiration
Integumentary System
Blood
Circulation
Lymph system
Immunity
Respiratory System
Excretory System
Musculo-skeletal System
Nervous System
Hormones
Reproductive System
DNA, Chromosomes and Inheritance
Human Development

Date Course Created: 2020

Date of Last Revision: November 5, 2020