

## CLINICAL HEALTH CAREER TRACK

**BIOL 111 Basic Biology** Deals with the principles of biology. Includes cellular structure and physiology, growth and repair, reproduction and development, control, sources of food energy, inheritance, and people's interrelationship with their biological environment.

**CHEM 145 Chemistry for Allied Health Sciences I** This course is the first semester of a two-semester sequence covering the main topics in general, organic, and biological chemistry as they relate to the health sciences field. Topics include atoms and molecules, chemical reactions, bonding, energy in chemical reactions, phases of matter, kinetics and equilibrium, acids and bases, nuclear chemistry, and an introduction to hydrocarbons and organic chemistry.

**MATH 110 Intermediate Algebra** Covers topics in algebra beyond the introductory level, yet less than the precalculus level. No student who has satisfactorily completed MATH 131 or a higher-numbered mathematics course may subsequently receive credit for MATH 110. Prerequisite: C or better in MATH 050 or satisfactory score on the department's placement examination.

**PHSC 111 Physical Science Chem** Explores selected chemical principles with the purpose of providing a background that will enable students to understand issues involving the interaction of science and society. Intended for non-science majors and does not assume prior familiarity with chemistry.

---

**BIOL 224 Human Biology** This course focuses on the biology of the human organism. Recent scientific and medical advances as they relate to the development of public policy are interwoven through topics covered. The biology of our aging human population including issues such as infection, autoimmunity, cancer, as well as respiratory, cardiovascular, and urinary system decline, will be discussed.

**CHEM 146 Chemistry for Allied Sciences II** This course is the continuation of CHEM 145. CHEM 146 covers the principles of organic chemistry by functional groups plus the biochemistry of proteins, enzymes, carbohydrates, lipids, neurotransmitters and hormones. All topics are taught with an emphasis on health-related topics.

**COM 138 Introduction to Health Communication** This course is designed to help students identify, analyze and apply concepts, theories and methodologies related to health communication. Emphasis will be placed on communication theories related to behavior change, normative messaging, information processing and management, and related communication competencies in health care settings.

**BIOL 260 Microbiology** Examines microorganisms, including viruses, bacteria, fungi, and protozoa, emphasizing those associated with human health and disease. Considers immunity and resistance to infectious diseases and to their epidemiological and public health aspects. Laboratory emphasizes pathogenic bacteria and the bacteriological and microscopic techniques. Two lecture and three laboratory hours weekly.