

HSC - GENERAL HEALTH SCIENCE (HSC)

HSC 1013 Human Biology (3-1-3)

An introduction of the basic concepts of Human Biology by offering the student an insight and understanding of the interrelationships of the various parts of the human body from the cellular level to the whole organism. A practical component will allow students to explore these anatomical concepts through a range of activities. It provides a foundation for further related and more specialised studies.

HSC 1023 Chemistry for Health Sciences (3-1-3)

This introductory course will discuss fundamental principles of Chemistry basic to the understanding of the health related interdisciplinary sciences. Topics include the classification of materials, subatomic and atomic properties, structure and chemical bonding, chemical nomenclature, chemical quantities and reactions and the analysis of the properties of solutions. A chemistry lab is included to reinforce the major theoretical concepts learned.

HSC 1033 Anatomy and Physiology (3-1-3)

Designed to build upon concepts covered in the Human Biology course. The aim is to extend the students understanding of the workings of the body systems and the communication processes required to coordinate their activities. Topics covered will be the structure and function of the following systems: endocrine, nervous, integumentary, cardiovascular and respiratory, immune, urinary and reproductive. A practical component will allow students to explore anatomical and physiological concepts through a range of activities.

Prerequisites: HSC 1013

HSC 1043 Biochemistry for Health Sciences (3-1-3)

This course provides health sciences students with a thorough background of structural, functional and clinical biochemistry and covers the basic concepts required for understanding physiological, metabolic, and pathologic health conditions. It aims to explore the principles, structures, functions and metabolism of essential biological macromolecules such as carbohydrate, lipids, and protein. It also seeks to illustrate the main structure and role of enzymes in hemostasis and presents the structure and function of micronutrients. The course correlating clinical chemistry to a disease process.

HSC 1113 Introduction to Healthcare Systems and Professional Practice (3-1-3)

Explores the essentials of health. It lays a solid foundation for all Health Sciences programs offered at HCT. It identifies the core concepts in healthcare delivery within the UAE and covers legal and ethical matters as they relate to healthcare delivery. The roles and responsibilities of various health professionals are analyzed, and current and emerging health challenges for the 21st century are identified.

HSC 1123 Work Health and Safety (3-1-3)

Introduces health sciences students in their first year of study to concepts related to health and safety practices in the work place. It identifies the common workplace hazards and risks and highlights the major principles of controlling, preventing and managing hazards and risks in the workplace with emphasis on health care settings.

HSC 1233 Human Growth and Development (3-1-3)

Examines human growth and development across the life span. Studies growth and development with an emphasis on the healthcare skills of Observation and measurement in Assessment; biological development, health and health promotion. Explores health choices and health issues. Prepares healthcare practitioners for interviewing and information gathering in healthcare assessments.

HSC 1803 Medical Terminology for Health Sciences (3-1-3)

Covers basic medical terminology beginning with prefixes, suffixes and word roots used in medical and health care language. Develops knowledge by identifying, analysing, defining, spelling and pronouncing terms and learning abbreviations related to each of the body systems, as well as the basic introductory principles of drug administration routes and drug classifications.

HSC 2203 Psychology (3-1-3)

Psychology is the scientific study of the human mind and behaviour. This course aims to provide an overview of the field of psychology to enable students to gain functional understanding of the human mind and behaviour, and apply this knowledge to their social work practice.

HSC 4003 Research Methods for Health Sciences (3-1-3)

Develops an understanding of the process of scientific inquiry. Quantitative and qualitative methods are covered. Emphasis is on developing a critical scientific approach to evaluating scientific literature, developing a research proposal and data collection tool. It includes the application of developed theoretical background to a capstone research project.

HSC 4006 Capstone Research Project for Health Sciences (2-8-6)

Provides an opportunity to perform a research project relevant to their Health Sciences programs. Utilise the research proposal developed to produce an extensive literature review, select appropriate methodology, collect and analyse data and present conclusions in a final capstone report and presentation.

Prerequisites: HSC 4003