

HEALTH CARE SERVICES (HCS) COURSE SUMMARIES

INTRODUCTORY

HCS1050: MUSCULOSKELETAL SYSTEM

Students explore the structure and function of the musculoskeletal system, gain an understanding of conditions of the musculoskeletal system and an appreciation for the benefits of practising a healthy lifestyle as it pertains to the individual, family, peers and community.

Prerequisite: HSS1010: Health Services Foundations

HCS1060: DIGESTIVE SYSTEM

Students acquire the attitudes, skills and knowledge for achieving and maintaining digestive health, and gain an appreciation for practising a healthy lifestyle as it pertains to the individual, family, peers and community.

Prerequisite: HSS1010: Health Services Foundations

HCS1070: RESPIRATORY SYSTEM

Students acquire the attitude, skills and knowledge for achieving and maintaining respiratory health, and study pathologies of the respiratory system to gain an appreciation for practising a healthy lifestyle as it pertains to the individual, family, peers and community.

Prerequisite: HSS1010: Health Services Foundations

HCS1080: CARDIOVASCULAR SYSTEM

Students acquire the attitude, knowledge and skills for the promotion and maintenance of a healthy cardiovascular system. Students study the pathology of cardiovascular conditions, and gain an appreciation for practising a healthy lifestyle as it pertains to the individual, family, peers and community.

Prerequisite: HSS1010: Health Services Foundations

HCS1100: INFECTION & IMMUNITY 1

Students learn the principles of infection and infectious disease as well as acquire the attitudes, knowledge and skills related to the integumentary system. Students acquire knowledge and skills necessary for achieving and maintaining a healthy integumentary system and for preventing the spread of communicable disease. Students gain an appreciation for practising a healthy lifestyle as it pertains to the individual, family, peers and community.

Prerequisite: HSS1010: Health Services Foundations

HCS1110: INFECTION & IMMUNITY 2

Students acquire attitudes, knowledge and skills related to basic principles of immunity and the processes involved in the initial defense mechanisms to prevent infection. Students complete a study of the components of blood, pathologies related to blood, and the role of blood in the body's defense as an indicator of health and wellness. Students gain an appreciation for practising a healthy lifestyle as it pertains to the individual, family, peers and community.

Prerequisite: HCS1100: Infection & Immunity 1

HCS1910: HCS PROJECT A

Students develop project design and management skills to extend and enhance competencies and skills in other CTS courses through contexts that are personally relevant.

Prerequisite: None

INTERMEDIATE

HCS2020: FIRST AID/CPR with AED

Students study and demonstrate first-aid skills and procedures, including cardiopulmonary resuscitation (CPR) and automatic external defibrillator (AED), for dealing with emergency situations. Students recommend practices for a safe environment and demonstrate skills and procedures for dealing with common emergency situations. Students examine safety strategies to prevent infection from blood-borne pathogens in health care and recreations settings.

Prerequisite: None

HCS2050: NERVOUS SYSTEM & SENSES

Students acquire the knowledge and skills necessary for the promotion and maintenance of a healthy nervous and sensory system. Students study pathologies of the nervous system and sensory organs, and gain an appreciation for practising a healthy lifestyle as it pertains to the individual, family, peers and community.

Prerequisite: HSS1010: Health Services Foundations

HCS2060: ENDOCRINE SYSTEM

Students acquire the attitudes, knowledge and skills necessary for achieving and maintaining a healthy endocrine system and balanced hormonal health. Students gain an appreciation for practising a healthy lifestyle as it pertains to the individual, family, peers and community.

Prerequisite: HSS1010: Health Services Foundations

HCS2070: URINARY SYSTEM

Students acquire the attitude, knowledge and skills necessary for achieving and maintaining urinary health and balanced body fluids. Students gain an appreciation for practising a healthy lifestyle as it pertains to the individual, family, peers and community.

Prerequisite: HSS1010: Health Services Foundations

HCS2100: INFECTION & IMMUNITY 3

Students acquire the attitudes, knowledge and skills related to the lymphatic system and the development of acquired immunity that are necessary for achieving and maintaining a healthy immune system. Students gain an appreciation for practising a healthy lifestyle as it pertains to the individual, family, peers and community.

Prerequisite: HCS1110: Infection & Immunity 2

HCS2120: PAIN & PAIN MANAGEMENT

Students examine the physiology of pain and the effects of unrelieved pain on the body systems and health and wellness of individuals. Students gain basic knowledge and skills related to the assessment and management of pain and the role of these strategies in promoting health and wellness in personal and health care contexts. Students gain an appreciation for the complexity of pain and the effects of pain on the individual, family, peers and community.

Prerequisite: HSS1010: Health Services Foundations

HCS2130: CHRONIC CONDITIONS

Students examine the physiological development of noncancerous chronic illness and chronic conditions and determine specific strategies to prevent chronic illness. Students develop awareness for the complexity of noncancerous chronic conditions and their prevalence in society through a comparative study of several noncancerous chronic conditions. Students consider the self-management model and explore resources available to help individuals manage noncancerous chronic conditions and assist their family, peers and community.

Prerequisite: HSS1010: Health Services Foundations

HCS2910: HCS PROJECT B

Students develop project design and management skills to extend and enhance competencies and skills in other CTS courses through contexts that are personally relevant.

Prerequisite: None

HCS2920: HCS PROJECT C

Students develop project design and management skills to extend and enhance competencies and skills in other CTS courses through contexts that are personally relevant.

Prerequisite: None

HCS2950: HCS INTERMEDIATE PRACTICUM

Students apply prior learning and demonstrate the attitudes, skills and knowledge required by an external organization to achieve credential/credentials or an articulation.

Prerequisite: None

ADVANCED**HCS3000: WORKPLACE SAFETY SYSTEMS**

Students gain the attitudes, knowledge and skills related to workplace health and safety and examine relevant legislation required in the workplace.

Prerequisite: None

HCS3010: WORKPLACE SAFETY PRACTICES

Students explore workplace safety principles and practices, and apply these principles and practices to a variety of contexts.

Prerequisite: HCS3000: Workplace Safety Systems

HCS3020: FIRST RESPONDER 1

Students study and demonstrate complex first-aid skills and procedures, including cardiopulmonary resuscitation (CPR) at the Health Care Provider level. Students acquire complex techniques for sustaining life, preventing further injuries, and caring for illnesses and injuries until the next level of medical personnel arrives at an emergency scene.

Prerequisite: HSS1010: Health Services Foundations
HCS2020: First Aid/CPR with AED

HCS3030: FIRST RESPONDER 2

Students demonstrate complex first-aid skills and procedures, including techniques for sustaining life, preventing further injuries, and caring for illnesses and injuries until the next level of medical personnel arrives. Cardiopulmonary resuscitation (CPR) skills are applied to complex scenarios.

Prerequisite: HCS1080: Cardiovascular System
HCS3020: First Responder 1

HCS3040: CHILD CARE FIRST AID

Students study and demonstrate first-aid skills and procedures, including cardiopulmonary resuscitation (CPR) and automated external defibrillator (AED), for dealing with emergency situations with emphases on children and infants. Students identify a child safe environment and recognize and demonstrate skills and procedures for dealing with child and infant emergency situations and medical conditions.

Prerequisite: None

HCS3050: REPRODUCTION & READINESS FOR PARENTING

Students acquire the knowledge and skills necessary for achieving and maintaining reproductive health. Students study basic genetic principles related to reproduction as well as pathologies related to the reproductive system. Students examine the benefits and challenges associated with parenthood and factors to assess readiness for parenting. Students gain an appreciation for practising a healthy lifestyle as it pertains to the individual, family and peers and community.

Prerequisite: HSS1010: Health Services Foundations
Note: This course requires notification under Section 11.1 of the Alberta Human Rights Act.

HCS3060: PREGNANCY, BIRTH & INFANT CARE

Students acquire the attitude, knowledge and skills necessary for achieving and maintaining a healthy pregnancy and parenting a healthy child in the first year of life. Students focus on the impact of pregnancy on the physical, mental and social well-being of the mother and newborn. Students examine the events of labor and delivery and the importance of post-natal care. Students gain an appreciation for practising a healthy lifestyle as it pertains to the individual, family, peers and community.

Prerequisite: None

HCS3150: ADVANCES IN MEDICAL TECHNOLOGY

Students research current technologies in medical diagnosis and treatment and examine biomedical ethics surrounding current and emerging technologies.

Prerequisite: None

HCS3910: HCS PROJECT D

Students develop project design and management skills to extend and enhance competencies and skills in other CTS courses through contexts that are personally relevant

Prerequisite: None

HCS3920: HCS PROJECT E

Students develop project design and management skills to extend and enhance competencies and skills in other CTS courses through contexts that are personally relevant.

Prerequisite: None

HCS3950: HCS ADVANCED PRACTICUM

Students apply prior learning and demonstrate the attitudes, skills and knowledge required by an external organization to achieve a credential/credentials or an articulation.

Prerequisite: None