

Academic Programs Booklet

College of Health and Sport Sciences

2025



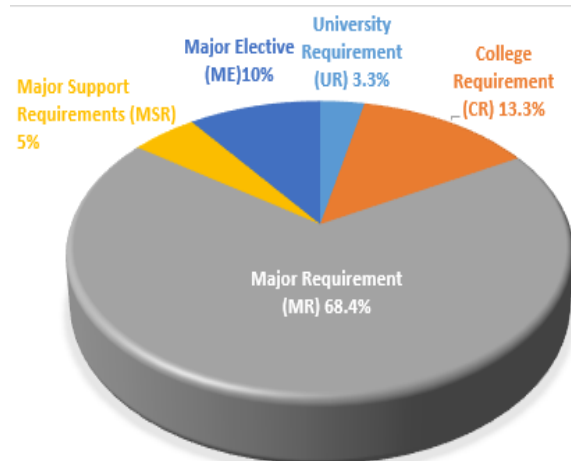
Prepared By: VP For Academic Programs and Graduate Studies Office

College of Health and Sport Sciences (CHSS)

Bachelor of Science in Public Health (Completion)

Program Components

Course Type	CRD
University Requirement (UR)	2
College Requirement (CR)	8
General Studies Compulsory (GSCC)	-
Major Requirement (MR)	41
Major Support Requirements (MSR)	3
Major Elective (ME) ¹	6
General Studies Elective (GSE) ²	
Training (Internship) Yes	Yes
Total Credit (CRD)	60



¹ Student must select five (3XX & 4XX) courses from Major Elective (ME) List. Additional to this, two courses must be selected from ME list as Job Placement Courses. This needs consultation and approval of the department.

² Student must select three General Studies Electives, one of them must be from Humanities and Social Science.

Note:

- Free Elective Courses any UOB course excluding: (1) courses offered for special students, (2) courses covered in the B.Sc. curriculum, (3) courses equivalent or lower than those already taken in the curriculum and should not be a science course prepared by College of Science for other colleges.
- HU/SS Courses - Humanities and Social Science Component: Any course from the following:
 Humanities: Fine Arts, History, American Studies, Classics, Communications, English, (Foreign Language) French, Music, Philosophy, Theatre, Literature (Arabic), Religion (comparative).
 Social Science: Anthropology, Economics, Education, Geography, History, Psychology, Sociology, Women's Studies, Political Science.

Detailed Study Plan

Year 1 - Semester 1

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
HRLC107	Human Rights	2	0	2	UR	-	-
ENG226	Scientific Report Writing	3	0	3	MSR	-	-
PH333	Applied Biostatistics	2	2	3	MR	-	Yes
LFS118	Anatomy and Physiology I	3	2	4	CR	-	Yes
PH316	Social Psychology	3	0	3	MR	-	Yes

Year 1 - Semester 2

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
LFS128	Anatomy and Physiology II	3	2	4	CR	LFS118	-
PH312	Industrial Hygiene	2	2	3	MR	-	Yes
	Elective I	3	0	3	ME	-	Yes
PHAM421	Public Health Toxicology	3	0	3	MR	-	Yes
PH325	Immunology for Public Health	2	2	3	MR	-	Yes

Year 2 - Semester 3

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
PH326	Demography and Population Health	3	0	3	MR	PH333	Yes
PH425	Evidence-Based Public Health Practice	3	0	3	MR	-	Yes
	Elective II	3	0	3	ME		Yes
PH423	Health Economics and Policies	3	0	3	MR	-	Yes
PH313	Infection Control and Prevention	3	0	3	MR	-	Yes

Year 2 - Semester 4

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
PH422	One Health	3	0	3	MR	-	Yes
PH421	Graduation Project	0	9	3	MR	PH425	Yes

Training Requirement

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
PH420	Public Health Field Practice	0	24	8	MR	PH312, PH313	Yes

Major Elective Courses

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
ITIS449	Health Informatics	3	0	3	ME	-	Yes
PH424	Artificial Intelligence for Public Health	2	2	3	ME	-	Yes
PH311	Health Promotion	2	2	3	ME	-	Yes

Course Description

Course Code: PH333 **Course Title:** Applied Biostatistics

Course Description: This advanced course builds on the foundational knowledge of Biostatistics, emphasising the applied use of statistical methods in public health research and decision-making. It focuses on the real-world application of complex statistical models, advanced inferential methods, and statistical software for analysis. Students will interpret and communicate statistical findings, develop evidence-based insights, and contribute to solving population health problems using quantitative data.

Course Code: PHAM 421 **Course Title:** Public Health Toxicology

Course Description: This course introduces the fundamental principles of toxicology as they relate to public health. Students explore key principles of toxicokinetics and toxicodynamics of harmful substances and their effects on biological systems. Focus is placed on intoxicants from food, consumer goods and the environment. The scope and application of regulatory, occupational and industrial toxicology is also discussed. The course emphasizes the roles of public health officers in developing and implementing preventive strategies with the purpose of preventing detrimental health impacts of toxicants in the society.

Course Code: PH 325 **Course Title:** Immunology for Public Health

Course Description: This course examines in depth the principles of immunology and their applications in public health. Students will recognize the immune system's functions in disease prevention, control, and health promotion, with a focus on vaccination, management of infectious diseases, and immune-related public health strategies and policies.

Course Code: PH 326 **Course Title:** Demography and Population Health

Course Description: This course examines the connection between demography and public health, focusing on how population dynamics influence health outcomes, healthcare access, and policy. It explores various demographic factors, including age, sex, ethnicity, and socioeconomic status, and their implications for public health practice. By incorporating theoretical concepts with practical applications, the course aims to equip students with the skills to analyse population data and address public health challenges.

Course Code: PH 425 **Course Title:** Evidence-Based Public Health Practice

Course Description: The course provides a comprehensive overview of evidence-based practice (EBP) in public health. It will enable the student to integrate the fundamental principles of EBP, including critical appraisal, assess public health issues, and apply research findings to real-world problems to make public health practice decisions.

Course Code: PH 312 **Course Title:** Industrial Hygiene

Course Description: This course provides an overview of industrial hygiene practices aimed at protecting the health and safety of workers in various occupational settings. Students will study the identification, evaluation, and control of workplace hazards, including chemical, physical, biological, and ergonomic risks. Emphasis will be placed on regulatory standards, risk assessments, and the implementation of effective control measures.

Course Code: PH 423 **Course Title:** Health Economics and Policies

Course Description: This course explores the intersection of health economics and public policy. Students will examine the economic principles that influence healthcare systems, analyse the legal frameworks governing health services, and evaluate policies that impact health outcomes. Key topics include healthcare financing, cost-effectiveness analysis, health determinants and the analysis of the impact of legislation on public health initiatives. The course will encourage critical thinking about how economic and legal factors shape health policy decisions.

Course Code: PH 313 Course Title: Infection Control and Prevention

Course Description: This course explores the principles and practices of infection control and prevention in various healthcare settings. Students will recognise the transmission of infectious diseases, strategies for preventing infections, and the role of public health policies in infection control. Topics include surveillance, vaccination, outbreak investigation, sterilisation, disinfection, and the importance of hand hygiene. The course emphasises evidence-based practices and the development of effective infection control measures.

Course Code : SBS 316 Course Title: Social Psychology

Course Description: This course examines how social and psychological factors influence individual and community health behaviors. Students explore key theories of social psychology, including attitudes, group influence, stigma, and social norms, with direct application to public health practice. Through real-world examples, students analyze how social environments shape decision-making, risk behaviors, and health communication. The course supports the development of skills to design culturally informed health promotion strategies and behavior change interventions.

Course Code: PH 420 Course Title: Public Health Field Practice

Course Description: This course provides students with hands-on experience in real-world public health settings. It focuses on applying theoretical knowledge to practical situations, allowing students to engage with communities, health organisations, and public health initiatives. Students will work under the supervision of public health professionals to assess community health needs, participate in health promotion activities, and implement public health interventions.

Course Code: PH 422 Course Title: One Health

Course Description: The One Health course amalgamates the triad of human health, animal health, and the environment to support global health security by enhancing communication, collaboration, and coordination at the interface to address shared health threats such as zoonotic diseases, antimicrobial resistance, food safety, and others..

Course Code: PH 421 Course Title: Graduation Project

Course Description: The course is designed for students to integrate and apply knowledge and skills acquired throughout the program in addressing complex public health challenges. Students will identify a public health issue relevant to their community or area of interest and conduct an in-depth research project. This involves formulating research questions, designing a study, collecting and analysing data, and developing impactful recommendations. Students will apply critical thinking, problem-solving, and public health theories and methodologies.

Course Code: ITIS 449 Course Title: Health Informatics

Course Description: This course introduces modern information systems for medical data in a clinical environment. It seeks to apply information and computing technologies to improve some aspects of healthcare, including patient care, research and education. Topics covered include: the nature of biomedical information and terminologies, clinical configuration, user interface design, the electronic medical records, the role of information and computing technologies to support clinical decision making, system analysis and technology assessment, and crucial issues of informatics in medical ethics, medical device integration, and community health information exchange.

Course Code: PH 424 Course Title: Artificial Intelligence for Public Health

Course Description: This course explores the application of Artificial Intelligence (AI) in public health, equipping students with the knowledge and skills to utilise AI technologies in addressing public health challenges. Through an integrated approach encompassing theoretical underpinnings, practical case studies, and hands-on exposure to relevant tools, students will investigate the potential of AI to enhance disease surveillance, improve health promotion strategies, and optimize healthcare delivery systems. The course also addresses the ethical, legal, and societal considerations related to the use of AI within the public health context.

Course Code: PH311 **Course Title:** Health Promotion

Course Description: This course focuses on the strategies and methods used in health promotion to improve community health outcomes. Students will apply behaviour change theories, health education, and the design and implementation of health promotion programs. Emphasis will be placed on the role of public health campaigns, community engagement, and the evaluation of health promotion efforts. A project is required to highlight successful health promotion initiatives and the importance of addressing social determinants of health.

College Requirements: Course Descriptions

Course Code: ENG 226 **Course Title:** Scientific Report Writing

Course Description: This course aims to enable students to write professional and academic reports (between 2000-3000 words) related to their areas of specialization and intended work. It also deals with vocabulary and language structures essential for producing a full-length formal research report.

Course Code: LFS 118 **Course Title:** Anatomy and Physiology I

Course Description: The course covers the organization of the human body structure and function of cells, tissues, and organs. It also includes the gross and microscopic anatomy and physiology of the integumentary, skeletal, muscular, blood, cardiovascular and lymphatic systems.

Course Code: LFS 128 **Course Title:** Anatomy and Physiology II

Course description: The course covers gross and microscopic anatomy and physiology of the nervous, special senses, endocrine, respiratory, digestive, urinary, and reproductive systems.

University Requirements: Course Descriptions

Course Title: Human Rights Principles

Course Code: HRLC 107

Course Description: This course deals with the principles of human rights in terms of the definition of human rights, scope, sources with a focus on the International Bill of Human Rights; The Charter of the United Nations; Universal Declaration of Human Rights; The International Covenant on Economics, Social and Culture rights; Convention against Torture and other Cruel, Inhuman or Degrading Treatment or Punishment; Mechanics and the Constitutional Protection of Rights and Public Freedoms in Kingdom of Bahrain.