

1.	School	Medicine
2.	Department	Community and family medicine
3.	Program title (Arabic)	ماجستير الصحة العامة
4.	Program title (English)	Masters in Public Health
5.	Track	Comprehensive

	Specialization #	Degree	Dep #	Faculty #	Year	Track
Plan Number	50	8	05	05	2022	Comprehensive

### First: General Rules & Conditions:

1. This plan conforms to the valid regulations of the programs of graduate studies.
2. Specialties of Admission:
  - The First Priority: Bachelor's in Medicine and surgery
  - The Second Priority: Bachelor's in...Dentistry
  - The Third Priority: Bachelor's in Pharm D
  - The Fourth Priority: Bachelor's in Pharmacy
  - The Fifth Priority: Bachelor's in Nursing
  - The Sixth Priority: Bachelor's in Human Nutrition

### Second: Special Conditions: or None.

### Third: Study Plan: Studying (33) Credit Hours as following:

#### 1. Obligatory Courses (24) Credit Hours:

Course No.	Course Title	Credit Hrs	Theory	Practical.	Pre/Co-requisite
0505701	Epidemiology	3	3	-	
0505702	Environmental health	3	3	-	
0505703	Health administration	3	3	-	
0505715	Research methods and ethics	3	3	-	
0505705	Primary Health Care (PHC)	3	3	-	
0505706	Environment , Health and Population	3	3	-	

0505707	Health policies and public health law	3	3	-	
0301737	Biostatistics	3	3	-	

2. Elective Courses: Studying (9) Credit hours from the following:

Course No.	Course Title	Credit Hrs	Theory	Practical.	Pre/Co-requisite
0505708	Epidemiology of infectious diseases	3	3	-	
0505709	Epidemiology of non-communicable diseases	3	3	-	
0505710	Planning and evaluation of health programs	3	3	-	
0505711	Water and Air pollution and its impact on health	3	3	-	
0505712	Occupational Health	3	3	-	
0505716	Child and adolescent health	3	3	-	
0703723	Women's health	3	3	-	
05057109	Quality Healthcare and Patient Safety	3	3	-	

3. Comprehensive exam: (0505798)

\*notes

## Course description

### *Obligatory courses*

#### **Epidemiology**

This course presents a comprehensive overview of the concepts and methods of epidemiology. Emphasis is placed on understanding objectives, design, and the strengths and limitations of the different epidemiologic studies. This course examines study design types and how to choose the appropriate one. Bias, confounding, effect modification, and causal inferences are covered in detail and the students are given the opportunity to apply epidemiological concepts in critiques of published research. The equations used for calculating risk as well as how to control bias and confounding will be introduced.

#### **Environmental Health**

Examines health issues, scientific understanding of causes, and possible future approaches to control of the major environmental health problems in industrialized and developing countries. Topics include how the body reacts to environmental pollutants; physical, chemical, and biological agents of environmental contamination; vectors for dissemination (air, water, soil); solid and hazardous waste; susceptible populations; biomarkers and risk analysis; the scientific basis for policy decisions; and emerging global environmental health problems.

#### **Health administration**

In this course, students will get acquainted with a wide ranging and diverse base of specialist health management topics. As a doctoral graduate student or manager in health, you will develop your skills and understanding of contemporary health or social care management issues, including key areas of health sector policy, governance, operations and evidence-based practice management. Students will develop skills and knowledge in current management theory and practice, and gain an in-depth understanding of health workforce planning. You will also learn about managing human resources, planning and implementing health programs, and managing performance and health budgets, strategic decision making and change management and an understanding of the role of innovation and the application of technology in health services management.

#### **Research methods and ethics**

This course provides core knowledge and skills for understanding, analyzing, and designing research. The course emphasizes research processes, quantitative and qualitative research designs, designing questionnaires, and methods of data collection and analysis. Ethical implications of designing and conducting research will be highlighted. The application of common statistical tests will be clarified. At the end of this course, students will be able to write scientific papers for publication and their thesis.

#### **Primary Health Care (PHC)**

This course is designed for students to advance their understanding of contemporary primary health care service delivery. Students will explore the emerging directions of primary health models of care from an international and national perspective.

## **Environment, Health, and Population**

This course explores the relationship people have with their environment, the risk management choices made, and the resulting associations that affect health and physical well-being for the individual, communities and susceptible populations.

## **Health policies and public health law**

In this course, students will examine law and policy applied to public health. Students will learn about the government's authority to address public health problems and legal protections from government action.

## **Biostatistics**

This course covers the advanced biostatistics methods that students need to prepare for conducting future research, as well as for critically reviewing the statistical methods incorporated in public health literature. Students learn to use statistical methodologies such as covariance and repeated measures, longitudinal data analysis, life tables and survival analysis, multiple regression, logistic regression, Poisson regression, and the Cox proportional hazards regression model. In this course, students use statistical softwares for advanced data management, manipulation, analysis, and the use of graphical techniques.

## **Elective courses**

### **Epidemiology of infectious diseases**

The course will cover core concepts in communicable disease epidemiology, methods used to determine disease frequency and risk, surveillance, outbreak investigation, and the epidemiology of important communicable diseases.

### **Epidemiology of non-communicable diseases**

This course will provide an overview of the epidemiology, risk factors, etiology and public health importance of major non-communicable diseases including cardiovascular diseases, diabetes, cancer, chronic lung disease, mental disorders, and injury.

### **Planning and evaluation of health programs**

This course introduces students to the fundamental concepts and techniques of planning, implementing, and evaluating public health programs. The course will cover concepts that are relevant to evaluation of health interventions, as well as social and behavioral interventions, in the community settings. These will include program/intervention; implementation and impact evaluation concepts; models/designs; methods; indicators; and data collection, analysis, and interpretation strategies. Design and application of evaluations will include both quantitative and qualitative research methods.

### **Water and Air pollution and its impact on health**

This course provides students an introduction to issues related to environmental pollution, with emphasis on causes, pathways, risks, mitigation and prevention. By the end of this course, students will have a good understanding of the dynamic nature of humanenvironment relationships, and the multidimensional characteristics of environmental pollution

### **Occupational Health**

Learn how to work on the issue of occupational health in all settings. Occupational health is a neglected part of public health in many developing countries where industrial activity is increasing. On this course, you'll broaden students' knowledge of occupational health and learn how to prevent diseases and injuries caused by

working conditions. Help student to understand how an occupational health and safety management system should be designed and implemented

### **Child and adolescent health**

This course uses a public health approach to understand child through to adolescent health challenges. Students will examine the historical and contemporary social, community, family and individual factors shaping child and adolescent health. Students will investigate the role of public health and child health specialists in promoting health through the early years into adolescence. Student will have the opportunity to develop an understanding of primary health care and broader health systems that optimise health outcomes in child and adolescent populations.

### **Women's health**

The course focus is on health problems and diseases affecting women. Students will become acquainted with the epidemiology of maternal diseases in developed and developing countries. Programs and resources available to combat health and nutritional problems will be evaluated. The role of different international organizations will be discussed in the context of a community

### **Quality Healthcare and Patient Safety**

This course aims to help students to obtain knowledge and comprehension in relation to quality and safety in the healthcare environment. Using safety and quality as a framework student will examine trends in critical incidents in healthcare that result in adverse outcomes for patients. The subject will also introduce students to emerging strategies in healthcare that seek to improve the safety and quality of patient care.