

**Course Syllabus of Fifth Semester
Academic term- 5th Semester**

- Course Title: Public Health for EMS Professionals
- Course Code: EMS 313
- Total Credits: 2; (2 Actual Theory, and 0 Actual Practical)
- Faculty member: Dr. Osama A Samarkandi; osamarkandi@ksu.edu.sa

*** Indented Learning Outcomes (Objectives):**

At end of this course, student should be able to:

- Discuss the principles of Public Health including public health science, Policies, organization and Prevention
- Understand the analytical methods of public health such as epidemiological principles and methods, statistics and role of data in public health
- Discuss the biomedical basics of public health including infectious and communicable diseases, and chronic diseases
- Summarize the social and behavioral factors effecting health such as psychological factors, sedentary life style, smoking, injuries, child and maternal health
- Discuss the environmental issues in public health including air pollution, waste disposal issues, population issues, water and food contamination
- Understand the national and international health care system and its relationship with public health
- Differentiate rural, suburban, urban, and remote health care systems and services
- Discuss the role of EMS in rural, suburban, urban and remote health care services
- Participate in public health activities and contribute to prevent injury/disease and promote public health theories.

*** Recommended text:**

Introduction to Public Health , Mary-Jane Schneider, Jones & Bartlett Publishers, 2010

*** References:**

Mosby's Paramedic Textbook (Revised Reprint), Workbook (Revised Reprint) and RAPID Paramedic (Revised Reprint) Package by Mick J. Sanders MSA EMT-P (Hardcover - Aug 16, 20012 or latest edition),

Community/Public Health Nursing: Promoting the Health of Populations, 5edition, Mary A. Nies PhD RN FAAN FAAHB (Author), Melanie McEwen PhD RN (Author)

*** e-References:**

<http://www.apha.org>

<http://ajph.aphapublications.org>

<http://www.biomedcentral.com/bmcpublichealth>

<http://jech.bmj.com>

<http://aph.sagepub.com>

<http://www.smj.org.sa>

www.nremt.org

www.heart.org

http://en.wikipedia.org/wiki/Healthcare_in_Saudi_Arabia

http://www.who.int/countryfocus/cooperation_strategy/ccs_sau_en.pdf

<http://www.med.unsw.edu.au/SPHCMWeb.nsf/page/saudiarabia>

<http://www.jems.com>

<http://www.health.ny.gov/nysdoh/ems/original/intro/intro.pdf>

<http://www.ems.gov/education/nationalstandardandnocs.html>

*** Course Schedule**

Week #	Topics and activities	
Week-1	Theory	Introduction to Public Health and EMS
		Homework-1
Week-2	Theory	Public Health Principles
		Quiz – 1
Week-3	Theory	Epidemiology and Statistics in Public Health
		Homework-2

Week #	Topics and activities	
Week-4	Theory	Health Care Planning, Organization and Evaluation
	Quiz – 2	
Week-5	Theory	International and National Health Care System and Polices in Public Health
	Assignment – 1	
Week-6	Theory	Public Health in perspective of Hajj
	Assignment – 2	
Week-7	Revision	
Week-8	Theory	Injury Prevention and Control
Week-9	Theory	Public Health Management Tools
	Homework-3	
Week-10	Theory	Public Education and Community Participation
	Quiz – 3	
Week-11	Theory	Communicable Diseases
	Assignment – 3	
Week-12	Theory	Non-Communicable Diseases
	Homework-4	
Week-13	Theory	Behavioral Factors affecting Health
	Quiz – 4	
Week-14	Theory	Environmental Health
	Assignment – 4	
Week-15	Revision	
Week 16	Pre-Final Examination	
Week 17	Final Examination	

*** Education Methodologies:**

- Interactive Lectures with lots of AV use,
- Student presentations,
- Guest Lectures by Eminent Faculty,
- Simulated Learning,
- Role plays,
- Group Discussions,
- Self-Directed learning,
- Computer Based Learning (CBL), and
- Animations, Illustrations, graphics and Cartoons etc.

*** Grade Assessment:**

Item	Percentage	Remarks
Quizzes	10%	
Homework	10%	
Assignments (Articles Analysis, Presentations)	20%	①, ②, and ③
Midterm	20%	
Final exam	40%	

- ①: Projects include field practice (i.e. School visit, Public facilities, and/or other related),
②: Groups and team work are encouraged,
③: Innovated projects are high recommended.