



**Course Syllabus of Fifth Semester**  
**Academic term- 5<sup>th</sup> Semester 2014-15 (1435-1436H)**

- Course Title: Public Health for EMS Professionals
- Course Code: EMS 313
- Total Credits: 2; (2 Actual Theory, and 0 Actual Practical)
- Weekly Schedule:
  - Wednesday (Group A: 10:00 AM–11:40 AM, and Group B: 01:00 PM – 02:40 PM).
- Faculty member: Dr. Osama A Samarkandi; [osamarkandi@ksu.edu.sa](mailto: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/bmcpublikealth>

<http://jech.bmj.com>

<http://aph.sagepub.com>

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

[www.nremt.org](http://www.nremt.org)

[www.heart.org](http://www.heart.org)

[http://en.wikipedia.org/wiki/Healthcare\\_in\\_Saudi\\_Arabia](http://en.wikipedia.org/wiki/Healthcare_in_Saudi_Arabia)

[http://www.who.int/countryfocus/cooperation\\_strategy/ccs\\_sau\\_en.pdf](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/nationalstandardandncs.html>



**\* Course Schedule**

Week #	Date	Topics and activities	
Week-1	Sep. 3, 14	Theory	Introduction to Public Health and EMS
			Homework-1
Week-2	Sep. 10, 14	Theory	Public Health Principles
			Quiz – 1
Week-3	Sep. 17, 14	Theory	Epidemiology and Statistics in Public Health
			Homework-2
Week-4	Oct. 15, 14	Theory	Health Care Planning, Organization and Evaluation
			Quiz – 2
Week-5	Oct. 22, 14	Theory	International and National Health Care System and Policies in Public Health
			Assignment – 1
Week-6	Oct. 29, 14	Theory	Public Health in perspective of Hajj
			Assignment – 2
Week-7	Nov. 5, 14	<b>Revision</b>	
Week-8	Nov. 12, 14	Theory	Injury Prevention and Control
Week-9	Nov. 19, 14	Theory	Public Health Management Tools
			Homework-3
Week-10	Nov. 26, 14	Theory	Public Education and Community Participation
			Quiz – 3
Week-11	Dec. 3, 14	Theory	Communicable Diseases
			Assignment – 3
Week-12	Dec. 10, 14	Theory	Non-Communicable Diseases
			Homework-4
Week-13	Dec. 17, 14	Theory	Behavioral Factors affecting Health
			Quiz – 4
Week-14	Dec. 24, 14	Theory	Environmental Health
			Assignment – 4
Week-15	Dec. 31, 14	Revision	
Week 16	Jan. 3, 15	<b>Pre-Final Examination</b>	
Week 17	Jan. 10, 15	<b>Final Examination</b>	



**\* 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
Attendance	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.