“Public Health is all around us: the water we drink, the immunizations we receive, the air we breath, and the environment we live in”

Instructor: Dr. Vishal Verma – vverma@illinois.edu
Class Hours: Tu/Th 1:00 - 2:20 pm
Credit: 3 [(UG)+1(G)] hours
Offered online only

Prerequisites: None formally. Previous basic science courses such as general chemistry and biology will be helpful.

Course Objectives – To learn:
The major public and environmental health issues that are encountered in the current century.
The origin and prevention of the public and environmental health hazards; and
The role of engineering in solving public health problems.

What’s in it for you?
For engineers: Learn how the basic principles of health sciences – toxicology, diseases, epidemiology and risk assessment drive the engineering innovations.

For health scientists: Learn how the engineering principles can be used to solve the problems of public health

Official Description:
Public Health: history, science, politics and prevention; Basic principles of Epidemiology: types, methods and limitations. Basic principles of Toxicology, Infectious and Chronic Diseases, The role of Bioaerosols in disease transmission, Social and Behavioral Factors in Public Health (Environmental Tobacco Smoke), Environmental Threats to Public Health – Environmental pollution and public health, Public health and Natural Disasters, Occupational Exposure, Risk Assessment and Management, Future of Public Health, Role of Engineering in Public Health.