INTRODUCTION AND OBJECTIVES FOR ENVR 433

Welcome to ENVR 433, Health Hazards of Industrial Operations, this course provides an introduction to occupational health and industrial hygiene with an emphasis on understanding the kinds of exposures that occur in industry, the illnesses associated with these exposures, and appropriate control measures to protect worker health. The course will provide a basic introduction to those interested in assessing exposures to airborne contaminants. The grade will depend upon a quiz (20%), and two exams (40% each). Note an average of 90 or better is an H (A); 70-90 is a P (70-80=C; 80-90B); 60-70 is an L (D), <60=F.

The specific aims are to:

1) Review basic operations of industry with regard to process description and health hazard potential.

2) Identify and understand the appropriate control measures available for the specific operations.

3) Develop references for technical information on these various industries and operations.

4) Develop an understanding of legal requirements as specified by OSHA.

5) Relate the appropriate disease symptoms to the offending agents in a specific operation.

6) Understand basic methods for measuring and assessing the exposures that occur in the workplace.

Expectations for the exams are as follows:

1) Be able to describe the process in fairly concise terms.

2) Know the specific questions that you need answers to in order to evaluate the health hazards for a given process.

3) Summarize the occupational health hazards.

4) Identify the types of controls that should be in place, the personal protective equipment needed, applicable monitoring methods, and legal requirements associated with the various operations.

5) Relate the appropriate disease symptoms to the offending agents in a specific operation.

6) Demonstrate some basic knowledge in noise, ventilation, and heat stress, some calculations will be required.