



Should I enroll in Population Health Science 794 – Biological Basis of Population Health?

Course Objectives/ Goals

- I. To review/present the biological principles needed to understand:
 - a. The basic physiological/anatomical/histological/biochemical processes of a normal human.
 - b. The importance and basic mechanisms of disease processes involving infection, cancer and toxic substances.
- II. To exercise the skills needed to:
 - a. Be familiar with the terminology pertinent to the above processes.
 - b. Be able to find, access, and understand literature pertinent to the above processes.

Some representative questions from old examinations:

1. Describe the process of phagocytosis and name two cell-types that are able to utilize this process.
2. Briefly describe and explain the relationship between Human Immunodeficiency Virus (HIV) infection and tuberculosis.
3. Briefly describe the major causes and etiology of inflammatory and non-inflammatory arthritis.
4. Briefly explain the concept of homeostasis as it relates to the control of breathing.
5. Describe the sequence of events in sleep apnea.
6. What is atherosclerosis and how does it develop?
7. Briefly describe the current working hypothesis for the cause(s) of type I diabetes.
8. What is multiple sclerosis (MS) and what are its diagnostic criteria?
9. Describe the multi-hit theory/hypothesis for cancer development.