



COURSE INFORMATION SHEET
BIOLOGY 425 – Reading Course in Epidemiology

Tentative Course Outline and Schedule for Fall semester 2009 or winter semester, 2010.

Instructor : Dr. Carol Gibbons Kroeker

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Learning Objectives:

1. Students will gain a greater understanding of fundamental biological principles of disease and epidemiology
2. The students will learn about the spread and containment of disease through the use of several case studies. They will perform independent research in several independent pathogens
3. The students will learn how to use literature searches appropriately and practice these on several case studies

Textbook: Outbreak Investigations Around the World: Case Studies in Infectious Disease Field Epidemiology, by Mark S. Dworkin, 2009, Jones and Bartlett.

You will be responsible for reading all 19 case studies outlined in the textbook. For 11 of these case studies, you will be required to submit and synopsis of the case as well as independent research on the pathogen involved in that case. For each, you will discuss the factors and causes that allowed the outbreaks to occur. These papers should be a few pages long. For one additional case study, you will write an in-depth paper on the outbreak, the pathogen biology, and the factors that were critical in the outbreak. It is expected that this paper would be 15-20 pages long. Discussions on each case study are encourage amongst other student in the course and with the instructor. All work must be done by either Dec. 15 (fall term) or April 15th (winter term.)

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| Mark Distribution | : | 11 Case Study papers (6% each) | 66% |
| | | Final Research Paper | 34% |

Grading Scheme

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|----|-------------------------|----|-------------------------------|
| A | Excellent | C | |
| A- | | C- | |
| B+ | Good | D+ | Poor |
| B | | D | Minimal pass |
| B- | | F | Failure – unsatisfactory work |
| C+ | Satisfactory –fair work | | |