

PATH/MICR 2220

Pathogenic Microbiology (Bacteriology)

Spring Semester

Instructor: Dr. Gerard P. Andrews

Introduction I – “The Good, the Bad, the Ugly”

Intro. II – Normal Flora and Bacterial Processes

Epidemiology of Infectious Diseases (Dr. Sato)

Host-Pathogen Interactions I – Virulence Mechanisms

Host-Pathogen Interactions II - Host Defenses

Antibiotics and Mechanisms of Resistance

The Staphylococci

EXAM 1

Streptococcal Pathogens I

Streptococcal Pathogens II

Enteric Pathogens I – Intro.; *E. coli*

Enteric Pathogens II- *Shigella*, *Salmonella*, *Yersinia*

Enteric Pathogens III– *Vibrio*, *Campylobacter* and *Helicobacter*

Neisseria meningitidis

Chlamydial Infections

EXAM 2

Sexually-transmitted Diseases (STDs) I - *N. gonorrhoeae*, *C. trachomatis*

STDs II – *U. urealyticum*, *H. ducreyi*, *T. pallidum*

Other Spirochetes – *Borrelia*, *Leptospira*

Corynebacterium and *Listeria*

Bordetella, Haemophilis, Moraxella

Mycoplasma and Legionella

Mycobacterium

EXAM 3

The Anaerobes

Rickettsiae

Select Agents I – *Y. pestis*, *F. tularensis*, *Brucella* spp.

Select Agents II - Burkholderia, Coxiella, B. anthracis

Other Pathogenic Bacilli; Opportunistic and Misc. Pathogens

Vaccines and Therapeutics

FINAL EXAM

(75% lectures 1 -21; 25% last 6 lectures)