CMMB 431 “Bacterial Pathogens” Learning outcomes

By the end of this course, successful students will be able to:

1. Explain, and discuss the major principles and concepts of a range of bacterial pathogens at various levels including:
   i. Specific bacterial pathogens
   ii. Diseases caused by the bacterium
   iii. Mechanisms of pathogenesis

2. Describe host immune response to bacterial infections and how we fight off bacterial infections using antibiotics and how we prevent disease using vaccines

3. Explain the role of the human microbiome in health and protection against bacterial invaders.

4. Communicate scientific information by writing a scientific literature review and in particular be able to recognize and present primary scientific literature.

5. Sharpen your ability to reason logically and critically evaluate information

6. Deepen skills needed to work with a group of your peers and present a research approach
   i. Apply your knowledge of scientific research on bacterial pathogens by presenting a research grant
   ii. Sharpen your oral communication Skills

7. Recognize members of the U of C community carrying out research on bacterial pathogens and infections and describe their findings.