2016 CMMB 343 “Microbiology” Learning Outcomes
At the end of the course you should be able to:

1. Describe and explain the differences between organisms in the three Domains (Eukarya, Archaea, and Bacteria). Further you should be able to explain which of the three are Prokaryotes. (Disciplinary knowledge, Science in society)

2. Explain and discuss the prominent role of Prokaryotes in:
   a. Evolution
   b. Nutrient cycling
   c. Extreme environments.

3. Describe and discuss topics in the field of microbiology, such as bacteriology, virology, immunology, bacterial genetics, molecular biology, bacterial ecology, metabolism, host-microbe interactions. (Disciplinary knowledge, Science in society)

4. Work safely and effectively with bacteria and bacteriophage using sterile technique with bacteria. (Technical skills)

5. Communicate effectively in lab reports using appropriate scientific terms. (Communication)

6. Create a presentation on a specific microbe. (Communication)

7. Identify an unknown microbe using appropriate diagnostic tools. (Curiosity and Creativity, Critical thinking)

8. Work with another student to carry out experiments, collect and analyze the data and then write your lab reports independently. (Research, Collaboration, Self-directed learning, Communication, Career Skills)