

MBIO 3280 Course Outline

(Topics may be deleted or new topics may be added)

- 1. Introduction/Overview**
 - 2. History of Microbial Ecology and Microbial Communities Study**
 - 3. Environment and Physiology**
 - 4. Biogeochemical Cycling of Elements: Carbon, Nitrogen, Sulfur and Phosphate/Iron**
 - 5. Microbial Habitats – Soil, Ocean, Lakes, Extreme Environments**
 - 6. Microbial Associations and Interactions: Microbes with Other Microbes, Plants, Insects and Animals**
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- 1. Applied Microbial Ecology**
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- 1. Methods in Microbial Ecology**