

Microbial Diversity, Systematics & Bacteriology

Upon completion of this course, students will be able to:

1. **Remember:** Recall the key concepts and terminology related to microbial diversity, systematics, and bacteriology, including the classification of organisms into Whittaker's five kingdoms, the principles of binomial nomenclature, and the organization of bacterial cells according to Bergey's Manual.
2. **Understand:** Demonstrate an understanding of the characteristics and structures of algae and fungi, including algal cell ultra-structure and the various modes of reproduction in fungi (asexual and sexual).
3. **Apply:** Apply knowledge of bacterial staining techniques to correctly identify different types of bacteria and interpret their cell organization.
4. **Analyze:** Analyze the diverse nutritional requirements of bacteria and explain how these impact microbial growth and survival in different environments.
5. **Evaluate:** Evaluate the growth patterns of bacteria under different conditions and assess the significance of bacterial growth in the context of microbial diversity and ecosystem dynamics.

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