

MICROBIOME SCIENCES

Learning Outcomes

1. **KNOW:** Students succinctly summarize research and ask questions to inform their dissertation studies from the scholarship of microbiome thought leaders across sub-disciplines.
2. **APPLY/CREATE:** Students mine literature and coursework to create meaningful hypotheses and apply laboratory and computer skills to generate/interpret data for characterizing microbiome diversity, dynamics, composition, functions, and impacts on novel problems
3. **COMMUNICATE:** Students will effectively communicate their research findings in writing, slides, posters, and speaking to peers, advisors, students, other disciplinary scholars, and stakeholders.
4. **THINK:** Students relate microbiome characteristics to relevant information from associated hosts and ecosystems (metadata) in original research.
5. **PROFESSIONAL PRACTICE:** Students will practice and demonstrate professionalism and ethical conduct of research. They will articulate issues related to professionalism, technical practice, and ethical conduct needed for pursuit of diverse careers in academia, government agencies, or industry in microbiome sciences.