

PLANT PATHOLOGY, MS

LEARNING OUTCOMES

LEARNING OUTCOMES

1. Demonstrate an understanding of the basic biology of microorganisms that are symbiotic with plants including fungi, bacteria, viruses, oomycetes, and nematodes.
2. Demonstrate a basic understanding of: a. the basic processes of pathogenesis, plant defense, and defense circumvention at the molecular, genetic and physiological level for each of the major groups of plant pathogens and other plant associated microorganisms. b. the etiology, ecology, and epidemiology of economically significant diseases caused by the major groups of plant pathogens and be able to apply the understanding from a. and/or b. above in research.
3. Conduct project related to the discipline of Plant Pathology that requires specifying a problem, designing and conducting experiments, analyzing the resulting data, and reporting results/solutions.
4. Convey scientific knowledge to fellow scientists in a variety of formats.