



<b>Course Number</b>	<b>311 PLANT PATHOLOGY</b>
<b>Course Name</b>	
<b>Credit Value (Breakdown of theory and lab credits)</b>	3 Theory
<b>Catalog Course Description</b>	You will study the historical foundation of plant pathology and will evaluate the current and future nature of plant disease and its causal agents (fungi, bacteria, viruses, nematodes, environmental/chemical agents) and of symbionts and their effect on plant health and disease resistance, epidemiological considerations on disease spreading and major outbreaks, and disease control and management techniques.
<b>Student Learning Outcomes/Objectives /Competencies of the Course</b>	<ol style="list-style-type: none"> <li>1. Knowledge of the major pathogen groups on the basis of phylogeny, morphology and physiology.</li> <li>2. Identify stages of disease development and describe the various modes by which each pathogen group achieve disease development.</li> <li>4. Describe mechanisms that pathogens affect plants and how plants defend against infection</li> <li>5. Discuss how host resistance to diseases can be improved by altering pathogen-plant interactions</li> <li>6. Identify the environmental factors conducive to pathogen activity and host response to infection.</li> <li>7. Describe the impact of agricultural practices on pathogen populations and disease environment</li> <li>8. Understand treatment types to limit impact of pathogens and their limitations</li> </ol>
<b>College-Wide Student Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. <i>Information Literacy</i> <i>Information literacy will be assessed by a term paper that will require research and reviewing of academic literature.</i></li> </ol>