

# Prerequisite Coursework

For Admission to Plant Pathology (MS or PhD) | University of Nebraska-Lincoln



Applicant Full Name

Applicant Email Address

Date

Course at UNL	Equivalent Course You Have Completed		
	Institution	Course Title	Grade
<i>Calculus and/or statistics (1 semester)</i>			
MATH 106: Calculus I			
<i>Basic chemistry (2 semesters)</i>			
CHEM 109: General Chemistry I			
CHEM 110: General Chemistry II			
<i>Physics (1 semester)</i>			
PHYS 141: Elementary General Physics or PHYS 151: Elements of Physics			
<i>Biological science (2 semesters)</i>			
BIOS 101: General Biology			
LIFE 120: Fundamentals of Biology I			
<i>Genetics (1 semester)</i>			
BIOS 206: General Genetics			

## Course Descriptions (for reference)

### **MATH 106: Calculus I**

Functions of one variable, limits, differentiation, exponential, trigonometric and inverse trigonometric functions, maximum-minimum, and basic integration theory (Riemann sums) with some applications.

### **CHEM 109: General Chemistry I**

Lecture and laboratory serving as an introduction to chemical reactions, the mole concept, properties of the states of matter, atomic structure, periodic properties, chemical bonding, and molecular structure.

### **CHEM 110: General Chemistry II**

Lecture and laboratory serving as an introduction to intermolecular forces, kinetics, chemical equilibrium, thermodynamics, and electrochemistry.

### **PHYS 141: Elementary General Physics I**

Mechanics, heat, waves and sound.

### **PHYS 151: Elements of Physics**

Short course, without laboratory, for those who need one semester of elementary general physics. Emphasis on understanding our physical environment through application of principles of mechanics, heat, sound, electricity, and light.

### **BIOS 101: General Biology**

Analysis of the structure, functions, and interactions of organisms from the molecular to the ecosystem levels.

### **LIFE 120: Fundamentals of Biology I**

First in a series of life sciences courses. A systems approach to the study of life at the cellular level, investigating cellular structures, chemical processes, cell metabolism, cell division, gene expression and introducing patterns of inheritance.

### **BIOS 206: General Genetics**

Inheritance and regulation of genes in organisms and populations. Fundamentals of genomics and bioinformatics.