### Thesis (6 units)

Course Code	Course Title and Description
	Master's Thesis – Proposal Writing
PP 300-	Master's Thesis – Conduct, Write-Up &
	Public Defense

Units

6

Units

3

3

PP 300-B • Formulation and presentation of research proposal, conduct of research activity, and writing and defense of research report

#### **Other Courses**

Course Code	Course Title and Description
PLT PATH 230	<ul> <li>Advance Plant Disease Management</li> <li>Exclusion of and therapeutic control for plant diseases; protection and immunization of plants and recent advances in plant disease management</li> </ul>
PLT PATH 245	<ul> <li>Biological Control of Pest</li> <li>Nature, mechanisms and interaction involved in the biological control of plant pathogens; isolation, utilization, and mass production of</li> </ul>

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biological control agents

### MAJOR STUDENT REQUIREMENTS/OUTPUTS

- Written and Oral Comprehensive examination after completion of 100% of academic requirements
- Approved and bound thesis manuscript
- Public presentation of MS thesis
- The student must have at least one (1) publication in refereed journal or juried creative work (CMO No. 15, series of. 2019)

## FACULTY

### Andres A. Basalong

Professor III BS Agriculture (BSU), MS Plant Pathology (BSU), PhD Horticulture (BSU-ongoing)

### Judith G. Lawilao

Instructor I BS Agriculture (BSU), MS Nematology (Ghent University), PhD Nematology (University of Leuven)

#### Nordalyn B. Pedroche Assistant Professor I BS Agriculture (BSU), MS Nematology (Ghent University), PhD Nematology (University of Leuven)

**Jocelyn C. Perez** Professor V BS Agriculture (BSU), MS Plant Pathology (UPLB)

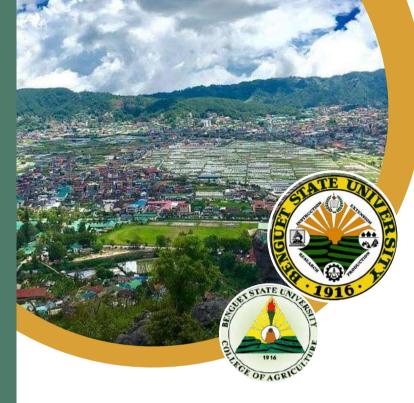
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# Master of Science in Plant Pathology

# College of Agriculture **ADVANCED STUDIES**

# MASTER OF SCIENCE IN PLANT PATHOLOGY -

Degree Program:	Master of Science in Plant Pathology
Legal Basis:	BOR Resolution No. 64, s. 1981 CMO No. 15, s. 2019
Type of Program:	Master's Degree
Department:	Department of Plant Pathology
Total No. of Years:	2
Total No. of Units:	33

# **PROGRAM DESCRIPTION**

The Masters of Science in Plant Pathology is offered through the Board Resolution No. 64 s. 1981. It was accredited in 2001 by the Technical Panel for Agricultural Education (TPAE) based on its curricular offerings, laboratory facilities and manpower. Owing to this accreditation by the TPAE, the MS degree program offered at Benguet State University was recognized by the Philippine Council for Agriculture, Forestry and Natural Resources and Development (PCARRD) where they can send their scholars to earn MS degree program in Plant Pathology.

This program is offered to graduates of Bachelor of Science in Agriculture (BSA), preferably with Plant Pathology and Crop Protection as major field, and other allied or related courses. This program is designed to provide graduate students with advanced academic and/or professional knowledge, skills and competencies in the field of Plant Pathology. It is an academic track which requires students to pass a comprehensive examination and requires a thesis and a publication in a refereed journal.

# **PROGRAM OUTCOMES**

- 1. Develop professionals with advance training in the various fields of Plant Pathology such as Plant Disease Management in order to provide solution to problems in Plant Pathology.
- 2. Instill in the graduate students of Plant Pathology the ability
- to do independent work, critical thinking and intellectual and moral discourses.
- 3. Hone professional leadership in Plant Pathology.
- 4. Enhance the ability of students to integrate and apply knowledge learned in Plant Pathology.

### CURRICULUM

**Core Courses (6 units)** 

Course Code	Course Title and Description	Units
PLT PATH 290	<ul> <li>Advanced Research Methods</li> <li>Methodologies, techniques and procedures in plant pathology; statistical techniques for data analysis</li> </ul>	3
	Research Publication and Public Presentation	
PLT PATH 292	<ul> <li>Principles and skills on ethical research standards, publication and presentation of research papers on Plant Pathology and other related fields.</li> </ul>	3

### Major Courses (18 units)

Course Code	Course Title and Description	
PLT PATH 210	Pathogenesis Pre-requisite: Biochemistry • Pathogenesis of plant diseases	3
PLT PATH 225 a	<ul> <li>Epidemiology of Plant Diseases</li> <li>Elements of plant disease epidemic system, effects of environment, pathogen dispersal and disease spread, basic epidemics and the genetic epidemics</li> </ul>	3
PLT PATH 235 a	<ul> <li>Postharvest Pathology</li> <li>Nature, causes and control of postharvest diseases of crops</li> </ul>	3
	Advanced Plant Nematology	
PLT	<ul> <li>Pre-requisite: Plant Nematology</li> <li>Systematics, identification, classification, and nomenclature of plant parasitic nematodes and</li> </ul>	
PATH 240	advances in phytonematological research with emphasis on nematode plant density, yield relationships, host-parasite relations, population	3

dynamics, cytology, physiology, and nematode

management

Course Code	Course Title and Description	Units
PLT PATH 250	<ul> <li>Advanced Mycology</li> <li><i>Pre-requisite: Plant Mycology</i></li> <li>Morphological identification of fungi associated with agricultural crops, nutrition and growth metabolism of fungi, and management approaches to fungal infection</li> </ul>	3
PLT PATH 260 a	Advanced Plant Virology <i>Pre-requisite: Plant Virology</i> • Diagnosis and management of plant viruses	3
PLT PATH 280	<ul> <li>Plant Disease Resistance</li> <li>Manifestation and genetics of plant disease resistance. nature and causes of variation in plant pathogens and breeding for disease resistance</li> </ul>	3

a : Students will select 1 from these courses

### Cognate/Elective Courses (6 units)

The course description depends on the course taken by the student. Students should select two (2) courses from a related field of specialization.

