Thesis (6 units)

Course Code	Course Title and Description	Units
PP 300-A PP 300-B	Master's Thesis – Proposal Writing Master's Thesis – Conduct, Write-Up & Public Defense • Formulation and presentation of research proposal, conduct of research activity, and writing and defense of research report	6

Other Courses

Course Code	Course Title and Description	Units
PLT PATH 230	Advance Plant Disease Management • Exclusion of and therapeutic control for plant diseases; protection and immunization of plants and recent advances in plant disease management	3
PLT PATH 245	Biological Control of Pest • Nature, mechanisms and interaction involved in the biological control of plant pathogens; isolation, utilization, and mass production of biological control agents	3

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)

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	**Advanced Research Methods** • Methodologies, techniques and procedures in plant pathology; statistical techniques for data analysis	3
PLT PATH 292	**Research Publication and Public Presentation** • Principles and skills on ethical research standards, publication and presentation of research papers on Plant Pathology and other related fields.	3

Major Courses (18 units)

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

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