Department of Plant, Soil and Microbial Sciences
College of Agriculture and Natural Resources

105 Fundamentals of Applied Plant Pathology
Spring. 2(2-2) R: Open to students in the Institute of Agricultural Technology. Not open to students with credit in PLP 405. Diseases of major agronomic and horticultural plants. Disease management. Offered first ten weeks of the semester.

200 Plant Diseases and Their Pathogens
Fall of even years. 3(2-2) Fall: All CHM communities and Traverse City. R: Open to agricultural technology students in the College of Agriculture and Natural Resources. Plant diseases. Biology of pathogens that cause disease. Disease management, with focus on Northern Michigan.

266 Turf Pathology
Fall. 3(2-2) SA: CSS 362, PLP 366 Turf pathogens and turf diseases. Cultural, biological and chemical methods for turf disease management.

402 Biology of Fungi
Fall of odd years. 4(2-4) Interdepartmental with Plant Biology. Administered by Plant Biology. P: BS 162 or BS 161 or PLB 105 or LB 144 or LB 145 or BS 182H or BS 181H SA: BOT 402 Characteristics, habitats, and diversity of major groups of fungi. Ecologic and economic importance of fungi.

405 Plant Pathology
Spring. 4(2-4) P: ((BS 161 and BS 162) and completion of Tier I writing requirement) or ((PLB 105 and PLB 106) and completion of Tier I writing requirement) or ((LB 144 and LB 145) and completion of Tier I writing requirement) SA: BOT 405 Plant diseases and the organisms that cause them. Principles of disease management including application of chemicals, plant breeding, biological control, and genetic engineering.

407 Diseases and Insects of Forest and Shade Trees
Spring. 4(3-3) Interdepartmental with Entomology and Forestry and Plant Biology. Administered by Plant Pathology. P: (PLB 105 or BS 162 or LB 144) and Completion of Tier I Writing Requirement SA: BOT 407 Diseases, insects, and environmental problems affecting trees in forests, parks, suburbs, and nurseries. Methods of control.

490 Independent Study
Fall. Spring. Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. Independent study of plant pathology on a laboratory, field or library research program of special interest to the student.

491 Selected Topics in Plant Pathology
Fall. Spring. Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: PLP 405 or PLP 407 Selected topics in plant pathology of current interest and importance.

492 Seminar
Spring. 2(2-0) P: (PLP 498) and completion of Tier I Writing Requirement RB: PLP 405 Capstone course. Experience in scientific writing, oral presentations, professional preparation, and current developments in plant pathology.

493 Professional Internship in Plant Pathology
Fall. Spring. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. This student may earn a maximum of 6 credits for any or all of these courses: ABM 493, ANR 493, ANS 493, CMP 493, CSS 493, CSUS 493, EEP 493, FIM 493, FSC 493, FW 493, HRT 493, PKG 493, and PLP 493. R: Approval of department; application required. Supervised professional experiences in agencies and businesses related to plant pathology.

498 Undergraduate Research
Fall. Spring. Summer. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: Completion of Tier I writing requirement. R: Approval of department. Faculty supervised laboratory. Field research in plant pathology.

805 Principles in Plant Pathology
Fall. 2(2-0) RB: (PLP 405) or equivalent course Biodiversity of plant pathogens, molecular plant microbe interactions, microbial ecology, epidemiology, and population genetics of plant pathogens.

812 Epidemiology of Plant Diseases
Spring of odd years. 3(3-0) SA: BOT 812 Populations of plant pathogens within populations of plant hosts as affected by the environment and humans.

820 Plant Reproductive Biology and Polyploidy
Spring of odd years. 3(3-0) Interdepartmental with Crop and Soil Sciences and Forestry and Horticulture and Plant Biology. Administered by Horticulture. RB: Introductory Genetics and Plant Biology. Genetic processes underlying variations in plant reproductive biology and polyploidy. Utilization of these characteristics in plant breeding.

847 Advanced Mycology
Fall of even years. 4(2-4) Interdepartmental with Microbiology and Molecular Genetics and Plant Biology. Administered by Plant Pathology. RB: PLB 402 SA: BOT 847 Systematics, identification, physiology, genetics, and molecular biology of plant pathogenic fungi.

850 Physiological Plant Pathology
Fall of even years. 3(3-0) RB: PLP 805 or concurrently RB: PLP 405 and PLP 415 Cytology of infection and mechanisms of colonization of plant by pathogens. Effects of disease on plant physiology. Plant-pathogen genetics and plant defenses.